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18. SUPPLEMENTARY NOTES		The Control of the Co	A				
19. KEY WORDS (Continue on reverse elde II necessary an Climatology, surface wind, tempera relative humidity, station pressur daily temperature, weather conditi facility, coastal region, snow dep	ture, precipitate, extreme temperons, monthly cli	ion, cei eratures, imatology	sea level pressure, Naval shore				
20. ABSTRACT (Continue on reverse eide if necessary and							
This data report consists of a six weather observations. The six par Atmospheric Phenomena, Part B - Pr Part C - Surface Winds, Part D - C Part E - Psychrometric Summaries,	ts are: Part A ecipitation/Snow eiling versus Vi	- Weathe fall/Sno sibility	r Conditions/ w Depth, / Sky Cover.				

STATION	STATION NO. ON SUMMARY:	STATION NAME		LATITUDE		LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WWO NUMBER	83
87	87601	McMurdo, Antarctica		77°	77°51'S	166°39'E	109	NZCM	89664	79
		STATION LOCATION	∢ Z	AND IN	STRUA	INSTRUMENTATION		HISTORY		
NUMBER OF SARO			TYPE	AT THIS LOCATION	VIION	30111141		ELEVATION ABOVE MSL	VE WSL	280
LOCATION		S S S S S S S S S S S S S S S S S S S	STATION	FROM	10			FEET TY	TYPE BAROMETER	DAY
4.3.5.	Weather office Resurveyed Meteorology bu Admin/Ops buil	Weather office Resurveyed Meteorology building 51 Admin/Ops building 165	Navy "	1956 1964 1965 1972	1964 1965 1972	77°51'S	166°39'E "	80 84.33 M	Mercurial "	
1a. 2a. 3a.	GMD spac Meteorol Admin/Op	GMD space adjacent to weather off. Meteorology building 51 Admin/Ops building 165		1964 1965 1971	1965 1971			84 As 85 109.1	Aneroid "	
NUMBER	DATE	SURFACE WIND EQUIPMENT INFORMATION	PMENT INFOR	AATION						
OF	CHANGE	LOCATION		TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDITI	REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE	REASON FOR CHANGE	
5.43.	Prior to 1957 1958 1959 1960 1972	80'S of aerological office 20 meters S of aerological office Adjacent to aerological office Replaced UMQ-5C NW Corner admin/ops bldg. 165	ffice	UMQ-5C UMQ-5D UMQ-5C	RD-108B RD-108D	15' 5 meters 22 " 39'	1. Barograph 2. Theodolite 3. Speedomax (4. Radiosonde	Barograph Theodolite (ML 247) Speedomax (H Leeds/Northrup) Radiosonde (GMD-1B)) /Northrup)	<u> </u>

NWSD, Federal Building Asheville, N C

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

DIRNAVOCEANMET 1tr 3146 Ser 1032 dated 26 August 1977 (NOTAL) established the following policy for SMOS production and updating:

- Ten years of data will be used as the standard period of record (POR).
- All available data will be used for extreme values.
- Summarize (update) every five years.
- a. Summarize the five year period (1973-1977) for all sections of the SMOS except extremes. The 5 year summary will be an intermediate SMOS to show secular trends. All available data through 1977 will be included for extreme values.
- The update in 1983 will include the POR 1973 through 1982, with all available data through 1982
- The update in 1988 will be an intermediate SMOS (POR 1983-1987). All available data through 1987 will be included for extreme values.
- the POR will be 1983 through 1992. All available data through 1992 will be used for extreme values.

Each standard POR (10 years) summary should be retained by individual stations along with the SMOS pre-pared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station. DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of ".O". (This value indicates a percent less than ".O5," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, tne occurrence of an occasional spurious value should not in itself be considered significant. Every effort reasonableness prior to, or during, the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect COMMENT: All observations summarized in this tabulation have been computer edited for consistency and Since most stations summarized now have in excess of 10,000 3-hourly observations, the is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Weather Service Detachment (NWSD), Asheville, N. C. welcomes your comment and criticisms.

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

- . By month and annual, all hours and years combined.
- By month and annual, all hours and years combined, by wind direction.
- . By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction reflect the total observations with reduced visibility. Percentages The total number of observations may vary among tables within the same month and period. may not always equal 100.0 due to rounding practices. NOTE:

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena, These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

may occur in the same daily observation, the sum of the values in the individual columns may not equal the centage of observations. Since more than one type of precipitation or more than one type of obstruction The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than pertotal columns.

This presentation is by month with annual totals, and is prepared with all years combined.

A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later. NOTE:

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the "% Total" indicates percentage frequency (plus calm). Column totals show the number of observations. of occurrences.

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WEATHER CONDITIONS

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ANTARCTICA STATION NAME

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YEARS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	155	155	155	155	155	155	155	155			1240
% OF OBS WITH OBST TO VISION	3.9	4.5	5.2	5.6	5.6	5.6	3.2	3.2			3.5
DUST AND/OR SAND											
BLOWING	1.3	•	•	•	1.3	1.3	1.9	1.3			1.1
SMOKE AND/OR HAZE											
FOG	2.6	8	4.5	1.9	1.3	1.3	1.3	1.9			2.3
% OF OBS WITH PRECIP.	12.9	13.5	14.8	14.8	16.1	11.6	0.6	11.0			13.0
HAIL											
SNOW AND/OR SLEET	12.9	13.5	14.8	14.8	16.1	11.6	0.6	11.0			13.0
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER- STORMS											
HOURS (L.S.T.)	00	60	90	60	12	15	18	21			
MONTH	JAN										TOTALS

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YEARS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	112	78	113	11	113	11	113	11			760
% OF OBS WITH OBST TO VISION	6.	3.8	9.1	9.5	*:	3.9	2.7	5.2	-		3.2
DUST AND/OR SAND											
BLOWING	6.	2.6	6.	2.6	4.4	3.9	2.7	5.5			2.9
SMOKE AND/OR HAZE											
FOG		1.3	6.								.3
% OF OBS WITH	16.1	19.2	16.8	20.8	21.2	20.8	19.5	18.2			19.1
HAIL											
SNOW AND/OR SLEET	16.1	19.2	16.8	20.8	21.2	20.8	19.5	18.2			19.1
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER- STORMS											
HOURS (L.S.T.)	00	60	90	60	12	15	18	21			
MONTH	FEB										TOTALS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

NO. OF OBS.	124		124		124		124				496
% OF OBS WITH OBST TO VISION	16,1		16.9		15.3		16.1				16.1
DUST AND/OR SAND											
BLOWING	12.9		15.3		12.1		11.3				12.9
SMOKE AND/OR HAZE											
F06	4.0		5.4		4.8		6.5				4.4
% OF OBS WITH PRECIP.	10.5		11.3		12.9		14.5				12.3
HAIL											
SNOW AND/OR SLEET	10.5		11.3		12.9		14.5				12.3
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER- STORMS											
HOURS (L.S.T.)	8	03	90	60	12	15	18	21			
MONTH	MAR										TOTALS

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	0		0		0		0				0
NO. OF OBS.	120		120		120		120				480
% OF OBS WITH OBST TO VISION	8.3		12.5		15.0		9.2				11.3
DUST AND/OR SAND											
BLOWING	5.0		12.5		8.3		5.0				7.7
SMOKE AND/OR HAZE											
503	3.3		œ •		8.3		4.2				4.2
% OF OBS WITH PRECIP.	7.5		8.3		10.0		6.3				80
HAIL						,					
SNOW AND/OR SLEET	7.5		60		10.0		8.3				8
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER. STORMS											
HOURS (L.S.T.)	00	03	90	60	12	15	13	21			
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TOTAL NO. OF OBS.	124	_	124		124	_	124				200
% OF OBS WITH OBST TO VISION	17.7		21.8		15.3		20.2				4.6
DUST AND/OR SAND							.8				. i
BLOWING	17.7		21.0		15,3		19.4				9.2
SMOKE AND/OR HAZE											
FOG											
% OF OBS WITH PRECIP.	11.3		12.9		19.4		16.9				7.6
HAIL											
SNOW AND/OR SLEET	11.3		12.9		19.4		16.9				7.6
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER- STORMS											
HOURS (L.S.T.)	00	03	90	60	12	1.5	18	2.1			
MONTH	MAY										TOTALS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	119		119		120		119				477
% OF OBS WITH OBST TO VISION	22.7		19.3		8.02		23.5				21.6
DUST AND/OR SAND											
BLOWING	21.8		19.3		20.8		21.0				20.7
SMOKE AND/OR HAZE											
POG	. 8						3.4				1.1
% OF OBS WITH PRECIP.	15.1		10.1		12.5		16.0				13.4
HAIL											
SNOW AND/OR SLEET	15.1		10.1		12.5		16.0				13.4
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER- STORMS											
HOURS (L.S.T.)	00	03	90	60	12	15	18	12			
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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LS.T.)	THUNDER. STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	90	SMOKE AND/OR HAZE	BLOWING	AND/OR SAND	% OF OBS WITH OBST TO VISION	NO. OF OBS.
100	00				17.71		17.7			18.5		18.5	124
	60												
	90				14.5		14.5	•		21.8		22.6	124
	60												
	12				12.1		12.1			18.5		18.5	154
	15												
	18				16.1		16.1			14.5		14.5	124
	21												
TOTALS					15.1		15.1	.2		18.3		18.5	964

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	124	•	123	10	124	12	124	12			535
% OF OBS WITH OBST TO VISION	16.1	16.7	17.9	10.0	9.6	8.3	18.5	16.7			14.1
DUST AND/OR SAND											
BLOWING	16.1	16.7	17.1	10.0	7.3	8.3	15,3	8.3		ŧ:	12.4
SMOKE AND/OR HAZE											.1
FOG			•				4.0	8.3			1.8
% OF OBS WITH PRECIP.	13.7	16.7	13.0	10.0	6.8		8.9	8.3			6.6
HAIL											
SNOW AND/OR SLEET	13.7	16.7	13.0	10.0	8.9		8.9	8.3			6.6
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER- STORMS											
HOURS (L.S.T.)	00	03	90	60	12	15	18	12			
MONTH	AUG										TOTALS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

RAIN FREEZING AND/OR RAIN &/OR DRIZZLE DRIZZLE	SNOW % OF AND/OR HAIL OBS WITH SLEET	506	SMOKE AND/OR HAZE	BLOWING	AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
	11.7	1.7		15.8		17.5	150
	6.6	2.8	1.4	12.7		16.9	2
	10.8	2.5	1.7	17.5		21.7	150
	9.5	1.4		14.9		14.9	=
	9.5	2.5		14.2		16.7	150
	5.6 5.6	5.6		8.3		13.9	72
	15.8	2.5		14.2		15.8	150
	8.2 8.2	2.7		13,7		16.4	73
	10.1	2.7	*	13.9		16.7	770

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DBSERVATIONS

TOTAL NO. OF OBS.	124	115	124	116	124	116	124	116			656
% OF OBS WITH OBST TO VISION	12.1	11.3	20.2	12.9	12.9	12.9	11.3	13.8			13.4
DUST AND/OR SAND											
BLOWING	12,1	11.3	18.5	12.1	11.3	12.1	11.3	13.8			12.8
SMOKE AND/OR HAZE											
FOG			2.4	6.	2.4	0.					•
% OF OBS WITH PRECIP.	11.3	10.4	15.1	10.3	7.6	15.1	11.3	9.5			10.8
HAIL											
SNOW AND/OR SLEET	11.3	10.4	12.1	10.3	9.7	12.1	11.3	6.5			10.8
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER- STORMS											
HOURS (L.S.T.)	00	60	90	60	12	15	18	12			
MONTH	100										TOTALS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	120	119	120	120	120	120	120	120			686
% OF OBS WITH OBST TO VISION	4.2	5.9	6.7	4.2	4.2	2.5	4.2	4.2			4.5
DUST AND/OR SAND											
BLOWING	4.2	5.9	5.0	3.3	4.2	2.5	4.2	4.2			4.2
SMOKE AND/OR HAZE											
FOG			1.7	*							.3
% OF OBS WITH PRECIP.	10.0	11.8	7.5	11.7	10.0	8.3	10.8	12.5			10.3
HAIL											
SNOW AND/OR SLEET	10.0	11.8	7.5	11.7	10.0	8.3	10.8	12.5			10.3
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER- STORMS											
HOURS (L.S.T.)	00	03	90	60	12	15	18	21			
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YEARS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

- "	•	6	*	6	•	•	*	122			-
NO. OF OBS.	124	123	124	123	124	123	124	12			987
% OF OBS WITH OBST TO VISION	1.6	3.3	1.6	1.6	1.6		2.4				1.7
DUST AND/OR SAND											
BLOWING	8.				1.6		1.6				6.
SMOKE AND/OR HAZE											
FOG	8.	4.2	1.6								
% OF OBS WITH PRECIP.	13.7	12.2	12.9	15.4	13.7	14.6	10.5	9.6			12.9
HAIL											
SNOW AND/OR SLEET	13.7	12.2	12.9	15.4	13.7	14.6	10.5	9.8			12.9
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE											
THUNDER. STORMS				,							
HOURS (L.S.T.)	00	03	90	60	12	15	18	21			
MONTH	DEC										TOTALS

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MC MURDO STATION, ANTARCTICA

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YEARS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DBSERVATIONS

BLOWING AND/OR WITH OBST NO. OF SAND TO VISION OBS.	1.1 3.5 1240	2.9 3.2 760	12.9 16.1 495	7.7 11.3 480	9.2 .1 9.4 500	20,7 21.6 477	18.3 18.5 496	12.4 14.1 535	13.9 16.7 770	12.8 13.4 959	4.2 4.5 959	1.7 987
SMOKE BL								.1	*.			
P06	2.3	.3	4.4	4.2	.1	1.1	.2	1.8	2.7		.3	
% OF OBS WITH PRECIP.	13.0	16.1	12.3	8.5	7.6	13.4	15.1	6.6	10.1	10.8	10.3	12.9
HAIL												
SNOW AND/OR SLEET	13.0	16.1	12.3	3.5	7.6	13.4	15.1	6.6	10.1	10.8	10.3	12.9
FREEZING RAIN &/OR DRIZZLE												
RAIN AND/OR DRIZZLE												
THUNDER- STORMS												
HOURS (L.S.T.)	ALL										1	
MONTH	NAC	FEB	MAR	APR	МАУ	Sch	105	AUG	SEP	DC.T	NOV	DEC

1

0

WEATHER CONDITIONS ATMOSPHERIC PHENGHENA

87601 STATION

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8 N C

HC MURDO STATION, ANTARCTICA

36-77

YEARS

ALL

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

	169	265	149	630	620	909	159	920	629	159	630	651	7576
NO. OF OBS.	•	•	•										7
% OF OBS WITH OBST TO VISION	12.9	50.9	45.1	53.0	54.2	60.5	54.5	54.9	53.8	45.4	19.8	14.6	40.5
DUST AND/OR SAND													
BLOWING	5,2	16.8	37.6	46.7	40.4	56.9	49.9	47.5	46.8	36.4	16.7	7.5	34.8
SMOKE AND/OR HAZE		*				6.		•		*	.2		
FOG	4.4	5.8	16.5	14.8	8.7	7.6	.3	13.2	14.8	12.9	*:	6.9	10.2
% OF OBS WITH PRECIP.	39.9	58,8	\$5.4	53,3	50.5	54.1	51.6	53,2	50.5	4.64	43.7	44.5	50.4
HAIL													
SNOW AND/OR SLEET	39.9	58.8	55.4	53.3	50.5	54.1	51.6	53.2	50.5	49.0	43.7	44.9	50.4
FREEZING RAIN &/OR DRIZZLE													
RAIN AND/OR DRIZZLE													
THUNDER- STORMS													
HOURS (L.S.T.)	DAILY												
MONTH	JAN	FEB	MAR	APR	MAY	200	JUL	AUG	SEP	130	NON	DEC	TOTALS

0

0

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

ALL	HOURS (L.S.T.)
JANUARY	MONTH
JAN 1973 - DEG 1976	YEARS
MC MURDO STATIONS ANTARCTICA	STATION NAME
87601	STATION

WEATHER	96.4	68.9	95.0	69.3	85.5	73.5	74.0	57.1	51.3	10.0	15.0	80.0	68.9	89.1	91.0	95.8			1058	65.3
SAND SAND AND DUST																		\bigvee		
BLOWING					. 3	4.1		4.8	5000	0.03								\bigvee	14	1.1
SMOKE																		\bigvee		
ICE FOG GROUND FOG					6.3													\bigvee	-	1.
F0G	1,2			1.3	2.1	2.0		9 . 4	12.8		0 62	20.0	1111	6.9	2.0			X	28	2.3
THUNDER																		\bigvee		
HAIL SMALL HAIL																		\bigvee		
SNOW GRAINS PELLETS SHOWERS	2.4	11,1	3.0	9.3	12.3	23.1	26.0	42.9	48.7	30.0				3.4		4.2		X	158	12.7
SLEET SHOWERS ICE CRYSTALS				6.														\bigvee	Ec.	. 2
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE																		\bigvee		
RAIN																		\bigvee		
RAIN																		\bigvee		
WIND	z	NNE	NE	ENE	Е	ESE	SE	SSE	s	SSW	SW	WSW	×	WNW	MZ	NNN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

1,240

7 7

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FEBRUARY

JAN 1973 - DEC 1976

MC MURDO STATIONS ANTARCTICA

87601

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

92.0 85.7 79.0 79.0 70.0 72.4 70.8 100.0 100.001 WEATHER SAND SAND AND DUST 241000 7.1 BLOWING SMOKE 4.0 GROUND FOG FOG THUNDER HAIL HAIL SNOW GRAINS "PELLETS "SHOWERS 8 0 14 3 13 5 22 5 5 5 220222 3 SLEET
SHOWERS
CRYSTALS FREEZING RAIN FREEZING DRIZZLE DRIZZLE RAIN RAIN WIND NE WNW ENE ESE WSW N Z NS SSE SSW SE * W z

TOTAL NUMBER OF OBSERVATIONS

755

603

2.8

2.3

N. A.

VARIABLE

CALM

% TOTAL

TOTAL

18.7

8

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

NO WEATHER	91.7	100.0	86.7	74.5	74.9	80.5	81.5	1 99	1.09	6.29		100.0	83.3	100.0	100,001	100.0			384
BLOWING SAND AND DUST																		\bigvee	
BLOWING			6.7	1.6.1	0.91	6.9	3.7	27.8	33.3	0.62			16.7					\bigvee	40
SMOKE																		\bigvee	
ICE FOG GROUND FOG			6.1	9.9	5.9	2.3			8.3									\bigvee	20
904					6.													M	N
THUNDER																		\bigvee	
HAIL																		\bigvee	
SNOW GRAINS PELLETS SHOWERS	60			10.6	11.0	13.8	18.5	22.2	25.0	12.5									
SLEET " SHOWERS I/CE CRYSTALS																		\bigvee	
FREEZING RAIN FREEZING DRIZZLE																		\bigvee	
DRIZZLE																		\bigvee	
RAIN																		\bigvee	
Z A I																		\bigvee	
WIND	z	NNE	N.	ENE	B	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	WN	MNN	VARIABLE	CALM	101

TOTAL NUMBER OF OBSERVATIONS

496

20

12.0

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96.3 100.0 100.0 100.0 100.0 100.0 100.0

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21.1 18.8 9.1

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STOR " FREQ. WIND DIR. VS WENTHER

WEATHER

SAND SAND AND DUST

BLOWING SNOW

SMOKE HAZE

CE FOG GROUND FOG

FOG

THUNDER

HAIL SMALL HAIL

SNOW GRAINS PELLETS SHOWERS

SLEET
SHOWERS
CRYSTALS

FREEZING RAIN FREEZING DRIZZLE

DRIZZLE

SHOWERS RAIN

RAIN

DIRECTION

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

MC MURDO STATIONS ANTARCTICA 87601 STATION

JAN 1973 - DEC 1976

APRIL

ALL

TOTAL NUMBER OF OBSERVATIONS

480

m

397

7.5

610

60 ·

W 4

N. A.

15.55

10.0

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NAVWEASERVCOM

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VARIABLE

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% TOTAL

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

MC MURBO STATIONS ANTARCTICA

87601

JAN 1973 - DEC 1976

MAY

ALL

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12643-54321

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0

5708% FREQ. WIND DIR. VS WEATHER TAN 68

NO

BLOWING SAND AND DUST

BLOWING

SMOKE

ICE FOG GROUND FOG

FOG

THUNDER

HAIL SMALL HAIL

SNOW
"GRAINS
"PELLETS
"SHOWERS

SLEET
" SHOWERS
ICE
CRYSTALS

FREEZING RAIN FREEZING DRIZZLE

DRIZZLE

RAIN

RAIN

WIND

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18.8

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100.0 64.2 72.2 72.2 65.7 31.3 38.9 100.0 100.0 361 6.9 20.05 62.5 16 0 6.3

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1

TOTAL NUMBER OF OBSERVATIONS

1

20.0

14.3

VARIABLE

WSW

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SSW

0

s

W NW NNN CALM

TOTAL %

14.8

900

15648-3605 1191

STEES LEED. WIND DIR. VS WEATHER

-

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JAN 1973 - DEC 1976

MC MURDO STATION, ANTARCTICA

STATION

	1.)
	1.5.
ALL	SETON
UZ O	

WEATHER	92.3	100.0	23,3	66.7	69.7	84.1	75.0	73,3	10.3			100.0			100.0	100.0		V N	354	74.2
BLOWING SAND AND DUST																		\bigvee		
BLOWING				23.8	22.8	11.6	5002	26.7	69.7	100.0								\bigvee	66	8.02
SMOKE																		\bigvee		
GROUND FOG					2.8	1.4												\bigvee	•	1.0
509																		\bigvee		
THUNDER																		\bigvee		
HAIL SMALL HAIL																		\bigvee		
SNOW "GRAINS " PELLETS " SHOWERS	7.7		16.7	9.5	15.2	8.7	15.9	6.7	51.7	80.0								X	49	13.4
SLEET SHOWERS ICE CRYSTALS																		\bigvee		
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE																		\mathbb{N}		
RAIN																		\bigvee		
RAIN																		X		
WIND	z	NNE	NE	ENE	E	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	WN	MNN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

MC MURDD STATIONS ANTARCTICA

87601

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JAN 1973 - DEC 1976

705

ALL

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1565- 5096 1101

89 NAL

10001 375 82.4 72.5 72.5 82.1 82.1 23.1 93.8 1 NO WEATHER BLOWING SAND AND DUST 33.3 16.31 22.22 14.3 BLOWING SMOKE HAZE 5.9 GROUND FOG 500 THUNDER HAIL SMALL HAIL 15.1 TY A 100.0 SNOW GRAINS PELLETS SHOWERS 6.3 14.3 SLEET S SHOWERS ICE CRYSTALS FREEZING RAIN FREEZING DRIZZLE DRIZZLE SHOWERS RAIN VARIABLE TOTAL % TOTAL WIND

NN M ENE ESE

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STOR S FREE WIND DIR. VS WEATHER

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TOTAL NUMBER OF OBSERVATIONS

CALM

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NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

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AUGUST ALL	BLOWING SAND AND
2	O Z
AUG	BLOWING
	SMOKE
97.	ICE FOG GROUND
EARS 19	506
JAN 1973 - DEC 1976	THUNDER
NAL 1	HAIL
	SNOW GRAINS PELLETS
TITION AND ANTARCTICA	RAIN SHOWERS CRAINS PREEZING CF
STATION NAME	FREEZING RAIN FREEZING
STATION	DRIZZLE
URDD S	RAIN
2	RAIN
STATION NC MURDO STATIC	QNIM

WEATHER	0.06	91.7	94.46	86.3	84.4	1.1	68.0	53.1	40.0	44.4	100.0	100.0	100.0	90.0	63.3	100.0		No.	+3+	81.3
SAND SAND AND DUST																		X		
BLOWING			3.6	11.8	11.8	20	24.0	40.0	0.09	44.4								X	73	13.7
SMOKE							0.4											X	1	2.
GROUND FOG				2.0	1:1	2.1	4.0		5.0	11.1									6	1.07
504																		\bigvee		
THUNDER																		X		
HAIL SMALL HAIL																		X		
SNOW GRAINS PELLETS SHOWERS	10.0			4.00	60	16.7	16.0	25.0	25.0	44.4				20.0					55	10.3
SLEET " SHOWERS ICE CRYSTALS		8.3													16.7			X	स्य	.6
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE																		\bigvee		
RAIN																		X		
RAIN																		\bigvee		
WIND	z	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	*	MNA	MN	MNN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

534

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

MC MURDO STATIONS ANTARCTICA

87601 STATION

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0

JAN 1973 - DEC 1976

SEPTEMBER

ALL

87601 STATION

12658 - 84321

100.00 44.4 43.8 43.9 53.9 53.0 53.0 50.0 100.0 109 X 2.0 110 25 0 2.0 2.6 1.

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SC.T. LEED. WIND DIR. VS WETHER

BLOWING SAND AND DUST

BLOWING

SMOKE HAZE

GROUND FOG

F0G

THUNDER

HAIL SMALL HAIL

SNOW GRAINS PELLETS SHOWERS

SLEET
" SHOWERS
ICE
CRYSTALS

FREEZING RAIN FREEZING DRIZZLE

DRIZZLE

RAIN

RAIN

WIND

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TOTAL NUMBER OF OBSERVATIONS

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VARIABLE

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CALM

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JAN 1973 - DEC 1976

MC MURDO STATION, ANTARCTICA

87601

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

NO	90.2	89.5	95.6	82.1	81.9	75.0	78.6	68	57.6	50.0	50.0	75.0	83	77,8	69	100.0			779	81.2
BLOWING SAND AND DUST																		\bigvee		
BLOWING				14.3	11.3	19.3	14.3	25.9	39.0	40.44	20.0	25.0	6.3	11.1	6.5			\bigvee	. 23	19.8
SMOKE																		\bigvee		
ICE FOG GROUND FOG					6.			3.7										\$ 3	•	4
500		5.3	3.7															\bigvee	8	
THUNDER																		\bigvee		
HAIL SMALL HAIL																		X		
SNOW GRAINS PELETS SHOWERS	9.6	5	3.7	7.1	10.0	17.1	17.9	7.4	15.6	16.7	50.0	12.5	16.7	22.2	16.7			N N	100	7 0.
SLEET SHOWERS ICE CRYSTALS																		X	4	4
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE																		\bigvee		
RAIN																		\bigvee		
RAIN																		\bigvee		
WIND	z	NNE	R	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	MN	NNN	VARIABLE	CALM	TOTAL	7 TOTAL

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TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

	WEATHER	6.06	100.0	93.5	6003	88.9	63.1	87.5	72.2	51.5	16.9	100.0	57,1	92.3	99.0	97.5	88.9
	S AND AND DUST				3.2	2.1	1.4	6.	1	3	1		0				
	BLOWING				3	-	2	•	16.7	36.4	63		9.83	•			
	SMOKE																
9	Secure Se					\$	1										
	509					9.	1:1										
	THUNDER																
HAIL	SMALL																
MONS	PELLETS	9.1		6.3	6.1	10.3	13.5	10.0	16.7	27.3	1.1		42.9	7.7	2.0	2.5	-
SLEET	ICE CRYSTALS																
FREEZING	FREEZING DRIZZLE																
	DRIZZLE																
	SHOWERS																
	NAN			The second													
	WIND	z	NNE	Ä	ENE	В	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	MN	

TOTAL NUMBER OF OBSERVATIONS

986

836

4.0

10.4

VARIABLE

CALM

7 TOTAL

TOTAL

DECEMBER

JAN 1973 - DEC 1976

MC MURDO STATIONS ANTARCTICA

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

HOURS (L.S.T.) 100.001 26.00 100.00 100.00 100.00 90.8 BLOWING SAND AND DUST 22.3 SLOWING SMOKE HAZE 1.5 GROUND FOG 1.5 3.8 3. FOG THUNDER HAIL SMALL HAIL 2242488 GRAINS GRAINS PELLETS SHOWERS 14.3 4 SLEET

SHOWERS

ICE

CRYSTALS FREEZING RAIN FREEZING DRIZZLE DRIZZLE RAIN RAIN WIND ENE ESE WSW WNW MNN 87601 STATION NNE SSE SSW SW SE × Ä s 3

TOTAL NUMBER OF OBSERVATIONS

7

12.9

985

851

237

×××

VARIABLE

CALM

% TOTAL

TOTAL

0

0

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PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

87601	HC HUROD STATIONS ANTARCTICA	JAN 1973 - DEC 1976	ALL	AL
STATION	STATION NAME	×8.48×	HINON	SACOI

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WEATHER	93.4	92.8	89.3	82.9	80.0	11.0	12.0	6.49	2005	55.3	700	81.1	87.1	86.0	91.0	0.26			7033	81.3
BLOWING SAND AND DUST							2.											\bigvee	1	0.
BLOWING	.2	2.2	2.2	8.1	9.6	8.9	12.6	1967	40.1	37.9	16.1	10.8	5.0		7.1	•		X	772	8.0
SMOKE					7.		2.											X	60	0.
CE FOG GROUND FOG					1.9	1:1	6.		1.8	1.0					9.	•			4	1.0
500	9.		*	6.					1 . 8		3.6	201	3.5	201	0.	6.		X	*	
THUNDER																		\bigvee		
HAIL SMALL HAIL																		\bigvee		
GRAINS GRAINS PELLETS SHOWERS	0.0	3.6	8.8	11.1	12.1	16.1	20.9	20.2	28.6	24.3	16.1	13.5	20	10.7	0.0	6.0			1071	12.4
SLEET " SHOWERS ICE CRYSTALS						~									0.	. 3		X	17	
FREEZING RAIN FREEZING DRIZZLE																		\bigvee		
DRIZZLE																		\bigvee		
RAIN																		\bigvee		
RAIN																		\bigvee		
WIND	z	NNE	NE	ENE	w	ESE	SE	SSE	s	SSW	NS.	WSW	*	WNW	M.N.	MNN	VARIABLE	CALM	TOTAL	% TOTAL

0

(2)

0

0

0

0

c

TOTAL NUMBER OF OBSERVATIONS

8,648

PART B

PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION

DERIVED FROM DAILY OBSERVATIONS

SNOWFALL*

DERIVED FROM DAILY OBSERVATIONS

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

- The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have ilmited use and and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual may be misleading.
- The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing. ö

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations

From beginning of record thru 1945 Jan 46-May 57

Jun 57-present

Snow depth at 0800 LST Snow depth at 1230 GCT Snow depth at 1200 GCT

> U. S. Navy and Weather Bureau Stations

From beginning of record thru Jun 52 Snow depth at 0030 GCT Jul 52-May 57 Snow depth at 1230 GCT Jun 57-present Snow depth at 1200 GCT

* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,

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5722 Daily Amounts Jan. 1969

DAILY AMOUNTS PRECENTAGE FREQUENCY OF PRECIPITATION (FROM DAILY OBSERVATIONS)

MC MURDO STATION ANTANCTICA

56-77

UNTS		18491		2.82TRACE	5.42TRACE	2.37TRACE	1. SOTRACE	2.20TRACE	FRACE	2.68TRACE	2.87FRACE	1.38TRACE	4.STTRACE	1.67TRACE	FRACE	X
MONTHLY AMOUNTS	(INCHES)	200.000		2.82	5.45	2.37	1.56	2.20	5.28TRACE	2.68	2.87	1.36	4.57	1.67	3.00TRACE	X
MONT	_	77.97		69.	1.02	.54	.53	.62	.84	.57	. 56	. 40	.72	. 4.	.53	7.57
	NO.	000		169	365	589	900	589	570	651	620	900	691	630	651	7367
PERCENT	DF DAYS	MEASUR.	AMTS	11.7	19.8	14.6	20.3	21.2	23.5	22,4	22.7	19.7	16.1	12,2	12.9	18.1
	OVER 20.00	OVER 50.4	OVER 120													
	0.01-20.00	25.5.50.4	01.120													
	5.01-10.00 10.01-20.00 OVER 20.00 OF DAYS	15.5.25.4	49.60													
	2.51-5.00	10.5.15.4	37.48										.2			0
	1.01.2.50	6.5.10.4	25.36	,		2.			.2				.2	.2		•
(Sah	51.1.00	4.5.6.4	13.24	.3	80			30	6.	.2	9.	.2	9.		.3	4
AMOUNTS (INCHES)	2650	3.5.4.4	7.12	1.7	3.0	1.5	1.3		1.4	1.4	.3	1.2	1.2	1.4	1.7	4.5
AMO	.m25	2.5.3.4	4.6	2.3	4.2	1.9	2.3	9.6	3.5	3.2	3.5	2.0	2.6	1.6	3.4	3.0
	0190	1.5.2.4		2.0	2.5	3.4	4:7	4.1	5.4	3.5	4.7	4.3	2.5	3.2	1.4	3.5
	.0205	0.5-1.4	2	3.2	6.7	8.4	0.6	8.0	10.4	7.6	10.3	9.8	6.5	3.8	1:1	7.2
	6.	1.0.1.0	-	1.4	2.3	2.5	2.7	5.9	1.8	4.5	3.2	2.2	2.5	1.6	2.0	2.5
	TRACE	TRACE	TRACE	28.3	38.6	6.04	32.2	28.9	31.2	29.0	30.6	32.2	33.5	31.6	31.6	32.4
	NONE	NONE	NONE	1.09	41.6	44.5	47.5	49.9	45.3	48.5	40.0	48.2	90.4	56.2	55.5	49.3 32.4
	PRECIP.	SNOWFALL	SNOW. DEPTH	NAL	5	MAR	APR	MAY	NOT	10r	AUG	SEP	500	NO N	DEC	ANNUAL

NAVWEASERVCOM

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DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNUWFALL (FROM DAILY OBSERVATIONS)

MC MURDO STATIONS ANTARCTICA

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56-77

YEARS

UNTS			2	28.2TRACE	54.2TRACE	7TRACE	15.6TRACE	22.OTRACE	52.8TRACE	26.8TRACE	28. TTRACE	13.8TRACE	45.9TRACE	20.6TRACE	PRACE	X
MONTHLY AMOUNTS	(INCHES)		CENTS	28.2	54.2	23.7	15.6	22.0	52.8	26.8	28.7	13.8	45.9	20.6	30.0TRACE	X
MONT	_	1		7.2	10.6	5.5	5.4	6.1	4.	5.7	5.7	4.0	7.3	5.2	5.3	77.0
	NO	0 0 o		159	565	589	970	558	570	651	620	609	159	630	651	7306 77.0
PERCENT	OF DAYS	MEASUR-	AMTS	11.7	19,8	14.6	21,2	20.1	23,7	22.4	22,7	19,7	16.1	12,2	12,9	18.1
	10.01-20.00 OVER 20.00 OF DAYS	OVER 50.4	OVER 120													
	0.01.20.00	25.5.50.4	61.120										• 2			0.
	5.01.10.00	15.5.25.4	49.60		*.											0.
	2.51.5.00	10.5.15.4	37.48		. 2				.2				.2			-
	1.01.2.50	6.5.10.4	25.36		*			.5	.7	.2		• 2		.2	.2	.3
(SHES)	51.1.00	4.5.6.4	13.24	.5	1.2	.3			4.		9.		.3	1.0	9.	4.
AMOUNTS (INCHES)	2650	3.5.4.4	7.12	s.	1.1	8.		.2	.7	.5	.2		5	.2	.3	
AMO	.1125	2.5.3.4	4.6	•	1.4		1.1	.2	.5	1.5	.3		eo •	1.1	1.1	6.
	0190.	1.5.2.4	6	1.2	3.0	1.5	1.9	3.0	2.3	1.7	2.4	1.0	1.2	1.3	2.5	1.9
	.0205	₹1.5.0	2	3.6	3.7	4.2	8.2	4.9	8.1	7.4	4.8	7.2	5.7	4.6	3.1	0.9
	10	0.1.0.4	-	3.8	8.5	6.5	9.3	8.2	10.9	11.2	10.8	10.2	6.9	4.0	5.5	0.
	TRACE	TRACE	TRACE	28.3	38.6	40.9	32.5	30.1	31.1	0.62	30.0	32.2	33.5	31.6	31.6	32.5
	NON	NON	NON	1.09	41.6	44.5	46.3	8.64	45.3	48.5	40.0	48.2	\$0.4	20.5	55.5	4.64
	PRECIP.	SNOWFALL	SNOW. DEPTH	NAL	FES	MAR	APR	MAY	N N	JUL	AUG	SEP	00	> NO	DEC	ANNUAL

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOW DEPTH (FROM DAILY OBSERVATIONS)

MC MURDO STATIONA ANTARCTICA

19-95

YEARS

UNTS		LEAST														X
MONTHLY AMOUNTS	(INCHES)	GREATEST														X
MON		MEAN														
101	200	0 0		341	282	310	330	341	300	310	341	300	279	330	341	3805
PERCENT	2.51-5.00 5.01-10.00 10.01-20.00 OVER 20.00 OF DAYS	MEASUR-	AMTS	3,8	12.4	11.0	29,7	47.8	48.0	45,5	47.8	44.7	6.84	21.2	14.1	30.7
	OVER 20.00	OVER 50.4	OVER 120													
	10.01-20.00	25.5-50.4	61.120													
	5.01.10.00	15.5.25.4	49.60													
	2.51.5.00	10.5.15.4	37.48													
	1.01-2.50	4.5.10.4	25.36													
(SHES)	51.1.00	4.5.6.4	13.24						.3							0
AMOUNTS (INCHES)	2650	3.5.4.4	7.12	.3			.3		.3	3.5	9.1	10.0	5.9	1.8		2.5
AMOI	.1125	2.5.3.4 3	9.4		40	9.	4.2	•	8.0	4.6	2.3	1.3	10.0	7.6	9.	3.9
	0190.	1.5.2.4	9		2.1		6.	7.9	4.3	5.5	2.1		3.6		3.5	2.6
	.0205	0.5-1.4	2	9.	1.4	2.6	4.5	7.6	12.7	4.8	14.4	6.7	7.5	3.9	4.1	6.8
	10.	0.1.0.4	-	2.6	7.1	7.4	19.7	31.7	22.3	9.02	19.9	26.3	19.0	7.3	5.9	15.8
	TRACE	TRACE	TRACE	31.4	43.6	63.5	9.09	4.0	47.3	53.9	51.9	55.0	52.0	57.3	0.64	80.8
	NONE	NONE	NONE	64.8	44.0	25.5	9.7	7.6	4.7	9.		.3	5.0	21.5	37.0	18.4
	PRECIP.	SNOWFALL	SNOW.	JAN	FEB	MAR	APR	MAY	NOT	וחר	AUG	SEP	٥٥	NO NO	DEC	ANNUAL

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PRECIPITATION

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YEARS

26-77

MC MURDO STATION, ANTARCTICA

87601 STATION

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24 HOUR AMOUNTS IN INCHES

ALL		. 90	04.	.16	1.30	94.	640	040	.65	. 83	2.10					2.80	. 70	1.06	.51		1.10		*6.	\$89.	7367
DEC.	.22	02.	.21	•05	96.	•15	000	.15	.20	.31	.33	.50	.20	. 80	.18	.35	.12	. 42	.51	.25	RACE		.27	.177	159
NOV.	90.	01.	.15	90.	.10	.00	*05	• 26	60.	. 33	61.	20	.15	. 80	. 3	A	.16	643	• 34	0	0		• 26	*	630
OCT.	•	.25	•				1	.10	K	.11		.55	24.	. 70	.68	2.80 7	.70	04.	.33	.15	TRACE		.39	109.	159
SEP.	TRACE	.28	01.	•10	.31	.11	• 05	60.	.12	. 40	06.	. 40		.12	• 05	.10	01.	.38	00.	5	• 03		.20	.207	009
AUG.	TRACE	.30	• 05	60.	. 53	90.	.01	01.	40.	.20	79.	.22		.16	.15	.15	.10	.05	.15	.12	.16		.16	.159	620
JUL.	RACE	.11	-	-	60.	.02	010	.02	. 20	. 30	. 34	.13	.20	04.	.03	. 25	16.	60.	. 29	90.	0.		. 16	.167	651
JON	TRACE	.21	TRACE	.13	TRACE	04.	.07	.13	.13	0.5	.67	1.15				.36	.21	101.	.21		.05		. 23	0	570
MAY	TRACE	06.	TRACE	•10	TRACE	.07	60.	. 15	80.	10.	• 20	.67		. 14	* .	. 22	. 33	. 19	. 24		. 32		• 20	.232	589
APR.	10.	.10	04.	60.	01.	040	• 05	TRACE	.23	TRACE	20.	.15		. 31	. 33	. 39	09.	60.	.12	.15	• 20		.20	1.00	009
MAR.	1				-		1		1		1		1.02			•	. 30	•	•	61.	• 50		.25	.256	589
		TRACE	TRACE	.02	. 50	. 42	. 45	04.	.27	. 0	2.10	.23	. 53	. 50	900	.23	.30	1.06	10.	18.	.08		24.	. 482	565
JAN.		***			3		27	TRACE	1		00.		1		1		1		1	90.	60.		.34	. 428	651
MONTH	36	57	20	65	09	01	29	63	70	69	99	67	69	69	10	11	72	73	74	20	76		MEAN	S. D.	TOTAL OBS.

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NAVWEASERVCOM

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FROM DAILY OBSERVATIONS

YEARS MC MURDO STATION, ANTARCTICA

56-77

87601 STATION

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ALL	RECTP.	LYS IYS	RECIP	PRECIP									
	20	20	20	20			,				H		
DEC.													
NOV.													
OCT.													
SEP.		TRACE 28											
AUG.		29											
JUL.													
, S		3.00	101										
MAY		30 8											
APR.		1.00											
MAR.	.13			30									
FB.													
JAN.													
WEAR	98	89	69	20							MEAN	S. D.	TOTAL OBS.

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NAVWEASERVCOM

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EXTREME VALUES

SNOWFALL

36-77

MC MURDO STATION, ANTARCTICA

87601 STATION

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24 HOUR AMOUNTS IN INCHES

MONTHS	0.0	2		1.0	13.0	4.6	6.5	0.4	6.5	8.3	21.0	11.5				28.0	1.0	10.6	5.1		7.0		9.11	6.851	7306
DEC.	7.7		7.7	•	3.0	1.5	3.0	1.5	2.0	3.1	3,3	2.0	2.0	8.0	1.6	3.5	1.2	4.2	5.1	5.5	TRACE		2.74	1.773	4.8.1
NO X	en C			•	1.0		7.	5.6		5.5		5.5		0.8	-	O	1.0	4.3	3.4	~	0.0		2.39	2.265	484
OCT.	7.7			7.	3.1		1.0	1.0	TRACE	2.3	1:1	2.5	7.4	7.0	0	28.0	0.1	4.0	3.5	1.5	TRACE		3.93	5.985	VEN
SEP.	TRACE		2	1.0	3.1		c.		1.2	0	0.0	4.0	-	1.2		1.0		60	6.	1.5			16.1	1	AAA
AUG.	TRACE	2	•	6.	5.3		:	1.0	3.	2.0	2.9	2.2		1.6		1.5	30			1.2	1.6		1.62	1.600	7 4 7
JUL.	TRACE	•		1.6	e.	.2	0.1	.2	3.1	3.0	3.4	1.3	2.0			2.5	3.1	6.	5.9	9.	7.0		1.89	1.695	1 3 7
J.	TRACE	7.7	MACE	-	TRACE	4.0		1.3		.2		11.5			1.3	3.6	2.1		2.1				2.28	2.813	200
MAY	HAC B	200	MACE	0:1	TRACE		6.	1.5			0.2	6.7		1.4		2.2	3.5	6.1	4.2		3.5		2.07	2.382	9
APR.	1.0	2	0	0.		0.4	·c.	TRACE	2	TRACE	7.	1.5		3.1	3.3	2.8	4.0	5.	1.2	1.5	2.0		1.30	1.373	K 7 A
MAR.		200	7.0	1:1	TRACE	3.0	-:	.2	6.9	1.0	4.0	1.0	10.2	5.5		1.0	3.0	9.	2.5	7.0	5.0		2.46	2.558	1
FEB.	70 40 6	3000	MACE	.2	2.0	4.2	4.5	0.4	5.9	8.3	0.12	2.3	0.9	2.0	•	2.3	3.0	10.0			5.0		4.47	4.763	373
JAN.	TRAPE	2000	MACE	TRACE	13.0	4.6	2.7	TRACE	2.9	2.0	10.0	TRACE	14.7	4.5	0.4	1.0		5.8	1.4		W 0.	•	3.57	4.363	107
YEAR	56		n n	29	09	61	29	en o	49	6.5	99	67	89	69	10	71	72	73	74	75	32		MEAN	5.0.	1

NAVWEASERVCOM

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SNOWFALL

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/BASED DN LESS THAN FULL MONTHS/ 56-77 HC MURDU STATIONS ANTARCTICA

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JGN.	JUL.	AUG.	SEP.	OCT.	NOV	DEC.	MONTHS
96			1.3	29									SNOFALL
89				10.0	30.8	1.8		1.3	TRACE 28				SHOFALL
69						1:1							SNOFALL
20			30.5		30								SNOFALL
MEAN													
S. D.						7							
TOTAL OBS.													

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NAVWEASERVCOM

87601 STATION

SNOW DEPTH

56-670 700 73

MC MURDO STATION, ANTARCTICA

87601 STATION

DAILY SNOW DEPTH IN INCHES

\$	12	20	*		-	•	*			2	1		1		T			1			T	T			.370	3803
MONTHS																								1	•	
DEC.	W 4	2		•	-	7	TRACE	~		TRACE					1			1			T			2009	1.914	341
NOV		-	-	٠,	2	X P C	•	-	2	TRACE					1			1			1		-	0.3	161.7	330
OCT.	30	7	-	n .	0	MACE	7	•	•	2	1									1			-	3.6	2.587	617
SEP.	TRACE 12	•	-	7	1	-	-	~	*	TRACE											1			6.0	3.730	300
AUG.	TRACE	1	~	TRACE	*	RACE	-	7	2	1	1				1								İ	2.0	2.608	341
JUL.	TRACE	*	2	7	1	-	TRACE	•	2	TRACE								1						7.7	2.530	310
J. N.	TRACE	20	~	TRACE	-	-	*	*	2	1					1			1						1.0	2.990	300
MAY	TRACE	~	-	-1	0	7	2	~	1	TRACE					1			1						0.2	1.732	196
APR.	TRACE	3	-	-		-	TRACE	•	TRACE	TRACE														7.0	2.445	930
MAR.	•	-	*	TRACE	2	TRACE	TRACE	•	TRACE	-					1									1.0	1.650	310
. E	TRACE		7	*	•	*	-	2		-	~				1									5.0	1.563	782
JAN.	TRACE		TRACE	•	2	-	TRACE	M	TRACE	7	TRACE							1						1.3	2.382	341
YEAR	25	28	89	09		20	63	79	69	99	20	99	69	2;	-	25	*:	2	9	11				MEAN	S. D.	TOTAL OBS.

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SNOW DEPTH

MC MURDO STATIONS ANTARCTICA

87601 STATION

56-67, 70, 73

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DAILY SNOW DEPTH	-
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YEAR	JAN.	FB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	- 2
96			1 22							TRACE 30			SNO DP
19						4 62	m 08		21				SNO DPTH DAYS
70										200			SNO DPTH
69		27											SAU DP
67			0	0	0	0	0	0	0	0	0	0	SNO DPTH DAYS
6.9	0	0	0	0	0	0	0	0	0	0	0	0	SNO DP
69	Ċ	•	0	0	0	0	0	0	0	0	0	0	SNO DP
10	0	0	0	0	0	0	0	0	0	•	0	۰,	SAU DP
11	0	•	c	0	0	0	0	0	0	0	0	0	SNO DP
72	•	0	0	0	0	c	0	0	0	0	0	•	SNC DP
73	0	0	0	0	92	0	0	0	0	0	c	•	
*	•	•	0	0	0	0	0	0	0	0	0	0	DAYS
75	•	•	0	0		0	0	•	•	0	C	•	SNO DP
16	0	0	0	0	0	0	0	•	0	•	0	•	SNO DP
11	0												SNO DP
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

DAILY EXTREME AMOUNTS

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87601 STATION

NAVAL WEATHER SERVICE DETACHMENT

ASHEVILLE, NORTH CAROLINA

MC MURDO STATION

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STATION NAME

MONTH

1975*

1966

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8.0

1975*

0.05 0.80

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1970

1968

284

1968

1977

1961

4.0 11.2 10.01

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1976

60.0 94.0 1,12

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1961

1966

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1966 1973 1964

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1973

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INCHES

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DAY

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3.0 4.0 0.5

1970

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SNOWFALL

PRECIPITATION GREATEST

1957-1977

YEARS

PEBRUARY

	PR	PRECIPITATION	NO.	w 0	SNOWFALL	
DAY	INCHES	MM	DATE	INCHES	MM	DATE
T	94.0	12	1968	9.4	117	1968
	0.25	•			63	
		7	-	2.6	99	-
		11	1962		114	1962
2	0.38	10	8961	3.8	46	1968
9	90.0	1	8961	4.0	10	
	2.00	16	9961	20.0	508	
8	0.30	8	9961		16	
6		89	1966	3.0	76	1966
10	0.10	18	1966			0
=		53	1966	21.0	533	1966
12	0.55	14	1968	5.5		1968
13		10	6961			1963
14		1	1961	0.5	13	1967
15		10	5961	0.4	102	1965
16	0.42	11	1961	4.2	107	1961
17		21	1965	8,3	211	0
18	•	6	5261	3.7		1975
19		3	6961	1.1		1969
20	5	13	1969	5.0	127	1969
21	0.20	5	1969	2.0	51	1969
22	.0	2	9161	5.0	127	1976
23	•	2	0261	9.0	15	1970
24	60.0	1	1960	0,3	8	1960
25	0.50	13	0961	5.0	127	1960
56	0.10	3	-	1.0	25	1971
27	60.0	1	7461	0.3	8	1974
28	0.07	2	1961	0.9	152	1968
29	10.0		1961	1.0	3	1964
30						
31						
Monthly	0.0	6.3	1044	9 16	623	7701

1970

102

4.0

0.1

1974#

1964

30

1.2

1968

0.03

13

12

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1970

373

3.0

1968 1970 1975

1.47

15 16

0

14

0.40

11 18 19 2 21 22 23

10.0

1965

1972

1960

1975

0.1 2.5 1.4

1975

0.02

0.25

0.01

26 27 28

0.03

24 25 0.14 0.04

53

30 31

0.26 1.47

Monthly

6.0

1972

19764

1960

63

1974 1973

> 1973 1964

1960

330

69

2.7 2.0

1960

1,30

0.27

1966

1962 1965

38

1.5

158

· ALSO ON EARLIER YEARS

1968

373

1968

1964

T ~ TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

19694

0.8

2 1969*

1971 1961

0.08 0.40

12

1961

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1969

1959 6961

0.28 60.0

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15 16 17 18

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1964 1964 1964 1962

DAILY EXTREME AMOUNTS

NAVAL WEATHER SERVICE DETACHMENT

ASHEVILLE, NORTH CAROLINA

STATION 87601

MC MURDO STATION

STATION NAME

1956-1977

YEARS

SNOWFALL APRIL PRECIPITATION GREATEST DAY

DATE

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INCHES

1974

254

10.0 0.3 2.0 2,8 2,0

1968 DATE

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INCHES

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GREATEST ON GREATE		10000000000000000000000000000000000000	MONTH	SNOW GREA SNOW

	1972	1969	1964	1964	1957	1969	1969	1970	1968	1975	1969	1974	1971		1968
	102	25	1.0	38	25	19	25	84	99	25	G ip	30	10		462
	0.4	1.0	0.7	1.5	1.0	3.1	1.0	3,3	2.2	1.0	0.3	1.2	**0		10.0
	1972	6961	1967	1961	1957	1969	1969	1970	1970	1975	6961	1974	1971		8961
	10		2	*	3	8	•	80	2	•	-	8	1		52
-	0,40	0.10	0.07	0.15	0.10	0.31	0.10	0.33	90.0	0.10	0.03	0.12	0.04		1.00
-	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly

* ALSO ON EARLIER YEARS

T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DAILY EXTREME AMOUNTS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

MC MURDO STATION

87601 STATION

12095 11981

0

STATION NAME

MAN

DATE

Z

INCHES

DATE

Z

INCHES

DAY

0

0.6

1971

0.12 0,21

1.2

SNOWFALL

PRECIPITATION GREATEST

1971

1957

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1974

1957

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8.1

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YEARS

JUNE

PREC	INCHES	0.22	0.24	1900	0,40	0,19	0.07	90.0	0.07	0.13	90.0	0.18	0.18	0.37	0.21	0.26	0.14	0.36	0.08	0.10	0.28	0.50	64.0	0.27	0.10	0.10	09.0	1,00	1.00	09.0	1,15	
PRECIPITATION GREATEST	MM	9	9	17 1	101	5 1	2 1	2	2 1	3 1	1 1	5 1	2	6	5 1	7 1	1 +	6	2 1	3 1	7	13 1	11 1	7 1	3 1	3	15	25 1	25	20	29 1	
7	DATE	971	196	996	196	716	416	970	1967	656	016	0	972	975	957	116	996	116	116	972	996	996	9	975	796	196	196	196	196	196	196	
.s ប	INCHES	2.2	2.4	6.7		1.9	0.7	0.8	1	1.3	4.0	1.8	1.8	3.7	2.1	2.6	1.4	3.6	0.8		2.8		4.3	2.7	1.0	1.0	0.9	10.01	10.0	0.0	11.5	
SNOWFALL	MM	95	19	170	102	84	18	20	18	33	10	46	94	16	53	99	36	16	20	25	7.1	127	109	69	25	25	152	254	254	203	262	
-11-	DATE		1967	1966	1961	1974	1974	1970	1967	1959	1970	1961	1972	1975	1957	1971	1966	1971	1971	1972	1966	1966	1966	1975	1964	1961	1967	1961	1967	1967	1961	

1972

427 51

16.8 2.0

1966

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10

= 12

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0

43 1968

1969

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1.5

1972 1972

2 1971

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1974

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1969

1974

1966 1976 1976 1971 1971

229

0.6

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1971

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0,22

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14 15 16 17 18

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20 1957

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1974

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203

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1974

61

5.4 1.0 . 3

1974

1967

1967

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1963

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20 21 22 23

19

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1974#

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3 1967

2 1970

0.07

0.12 0.11

> 25 26 27

0,20

28

5 1972

29	0.11	3	1970	7.7	28	28 1970
30	80.0	2	1964	0.8	20	1964
31	0.21	8	1971	2.1	53	1971
onthly	1.68	43	1968	16.8	427	1968

1970 1970

2.0

1967

1961

3 :

· ALSO ON EARLIER YEARS

T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

=

AUGUST

DAILY EXTREME AMOUNTS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

20

12605 11981

87601 STATION

Q

MC MURDO STATION

STATION NAME

MONTH

1956-1977

YEARS

1966 **16 1965 DATE 1966 1966 1966 1975 1958 1970 1965 1974 1961 1969 1967 1965 1957 1967 1965 SNOWFALL 9777975 38 7 Z 2.0 1.6 300 2.0 1000 9.0 0.5 0.5 0.5 1.5 1.5 0.5 0 INCHES 1966 1974# 1976 DATE 1966 1974 3 1965 1965 1966 1969 596 1975 1965 1958 1957 1967 1961 1957 1961 1957 1966 1961 PRECIPITATION * 3 0 5 4 9 Z 0.60 0,02 0.05 0.12 60.0 0.11 0.05 0.07 0.15 0.16 0.15 0.10 0.15 0.20 0.12 0.04 0.05 0.05 0.10 0.15 0.23 DAY 5 = 13 14 15 16 18 19 20 22 23 25 56 7 12 17 21 24 27 က 4 2 9 1 œ 6

1997

1.6

4

0.16 0.25

> 28 3

9

0.62

30

0.62

Monthly

31

13 1960

PRECIPITATION GREATEST	INCHES	,	0.20		0,30	0,16	0.25 6	0.05	2		.10		.20	0.08	• 05	0.31		0.10		0,70	0,40	0.25 6	0,15	0.39 10	0.34	0,40	0.16		0.20	0,30	4
NOI	DATE	1974	196	196	19	195	1971	1976#	-	67	19	1962	19	19	19	-	1976	195	19	1976	1976	19	1976	1976	19	19	-	1976	19	-	1076
SS	INCHES	1.	2.0	3.0	3.0	1.6	2.5			9.0		0.5		8.0			0.5	1.0	2.0	7.0	0.4	2.5	1.5	3.9	3.4		1.6	2.1		3.0	1.5
SNOWFALL	MM	36	51	16	16	41	63	13	80	15	25	13	51	20	13	62	13	25	51	178	102	69	38	66	98	102	41	53	19	16	38
	DATE	d La	1966	1965	1966	8	1971	1976*	1972*	1975	1962	9		9	16	-	1976	1958	-	1976	1976	1976	1976	1976	1966	1969	1969	1976	1964	1972	1976

• ALSO ON EARLIER YEARS T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DAILY EXTREME AMOUNTS

רשמער

MC MURDO STATION
STATION NAME

87601 STATION

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

SEPTEMBER

1956-1977

YEARS

	רר ST	DATE	1969	1966	1975	1972	-	1975	1	-	1970	-	-	-0	0	-	2	-	-	1956	•	1960	1966	-	1966	1974	1960	-	1970	1972	1969	1974	1962
	SNOWFALL	MM	15	28	•	25	68	38	13	84	173	1	9	107	58	323	16	711	38	30	36	19	25	26	13	13	13	25	25	178	178	3	33
E T T T T T T T T T T T T T T T T T T T	80	INCHES	9.0	1.1	-		3.5		0.5	3,3	8.9	4	1.0		2.3	12,7	3.6		1.5	1.2	1.4	3.1	1.0	2.2	0.5	0.5	0.5			7.0	7.0	0.1	1.3
OCTOBER MONTH	Z.	DATE	6961	9961	1975*	1972	1	-	1	-		1975*	1959	1968	1965	1971	1971	1971	1970	1956	1960	1960	1966	1970	1966	1974	1960	1970	1970	1972	1969	1974	1962
	PRECIPITATION GREATEST	MM	2	3	•	3	6	4	1	8	17	-		11	3	32	9	71	4	3	*	9	3	9	1	1	1	3	3	18	18		3
	PR.	INCHES	90.0	0.11	-	0.10	.3	0.15	0.05	. 3	0.68	1	10.0		0.11			2.80	•		0.14						0.05			0.10	0.10	10.0	0.13
	2	DAY	1	2	8	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

	A.	PRECIPITATION	NO.	85	SNOWFALL	
DAY	INCHES	MM	DATE	INCHES	MM	DATE
		7			99	1960
		2	1969	1.0	18	1969
		7	1962	6.0	13	1962
		8	1960		64	9
	0.05	7	+0961	5.0	13	1960*
		2	1957	0.7	18	8
		3	8		30	1957
		2	1957	0.7	18	1957
	0.0	-		4.0	10	
01	0.20	2	0	2.0	51	0
=	0.16	*	0		41	-
12		2	1960		1.8	1960
13		3	0		53	
14	0.10		0		25	20
15		2	0	0.8	20	-
16	0.10	3	1965	1.0	25	96
17	•	10		0.4	102	1961
18	90.0	2	1961	9.0	15	1961
19		23			229	1966
20		2	1957	2.0	51	1957
21		-	-		8	1975*
22		S	0		51	1965
23		10	0		102	
24	0.10	3	1965	1.0	25	1965
25	7.	6	1971*	1.0	25	1971*
26			•	1.0	25	1965
27	0.07	2	3	0.7	18	1957
28	0.08	2	1975	0.8	50	1975
53	0.12	3	1969	1.2	30	1969
30	60.0	2	1964	6.0	23	1964
31						
Moothly	00		770.			1

0

• ALSO ON EARLIER YEARS T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCE ANMET - SMOS

DAILY EXTREME AMOUNTS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION MC

MC MURDO STATION

STATION NAME

MOVEMBER

1950-1977

1977

YEARS

MONTH	
MONTH	
MOM	•
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U -	2
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-1	

	HA O	PRECIPITATION GREATEST	NO.	s o	SNOWFALL	J.
DAY	INCHES	MM	DATE	INCHES	MM	DATE
-	0.22	9	1962	2.2	96	1962
2		•	1965	2.4	19	1965
3	0.50	13	1961	5.0	127	96
4	0.20	2	1968	2.0	51	1968
2	-	-	19684	•	-	1968
9	0.31	8	1965	3.1	19	1965
7		3	1963	1.0	25	1963
80	0.30	9	7967	3.0	16	1962
6		-	1461	0.5	13	-
10	0.16	4	1956	1.6	1+	1956
11	0.22	•	9661		96	~
12		13	1969	2.0	127	1969
13	0.20	5	6961		51	1969
14		-	*1761		-	16
15		8	9	3.0	16	96
16		3	1972	1.2	30	1972
17		5	-	2.0	51	1956
18		3	1972	1.2	30	1972
19			*5161	0.1		1975
20		2	1961	9.0	15	1961
21		8	0961	3.0	16	1960
22		1	1461	0.5	13	1971
23	•	6	1461	3.5	68	161
24			1961	2.0	51	1967
25	•	20	9	8.0	203	1969
56		80	1969	3.0	16	1969
27		1	**161	0.5	13	1974
28	•	13	6961	2.0	127	1969
58		1	2791	0.4	10	
30	0.50	2		2.0	51	1969
31		3	6961	1.0	25	1969
Monthly	0.80	20	6961	8.0	203	1969

*2461

1972#

1970 1969 1969 1979

25

53.50

1970

1970

0.10

1970

0.30

1969

1974

9

3.5000

1976

0.10

1976

0,20

0.15

1974

9961

0.1

1960

0.32

1966

1957

1957

1.0

1956

0.08

0.18

0.10

1972

1972

1956

0.0

1972

99

3.4

1966

0.02

1963

1965

0.26

3 23 28

1974

1963

1970*

1976

6.0

1968#

696

0.10

5.7

1961

140

5.5

0.0

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0.00

10 = 12 13 14 15 16 11 13 19 20 21 22 23 24 25 26 27

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0

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1972*

203

1969

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0.80

14 1967

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NCHES

DAY

0.08

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1,10

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SNOWFALL

PRECIPITATION GREATEST =

0

	1969	
	203	
	8.0	
	1976	
	28	
	1,10	
31	Monthly	

• ALSO ON EARLIER YEARS T ~ TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

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DIRNAVOCE ANMET - SMOS

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided. Speeds are presented in knots, while directions are given in 16 When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is Every month of a year must have valid observations present before the ALL MONTHS value is selected compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. selected and printed. These values are then used to compute means and standard deviations for the entire Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in for that year. Means and standard deviations are computed when four or more values are present for any

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean Bivariate percentage frequency tabulations: Derived from 3-hourly observations, these tabulations are a wind speed for each direction. 5

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- Three tables are prepared for all surface winds included, and for all years combined as follows:
- (1) Annual all hours combined
- (2) By month all hours combined
- (3) By month by standard 3-hour groups
- A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet. è,

EXTREME VALUES

SURFACE WINDS

YEARS

56-77

MC MURDO STATION, ANTARCTICA

87601 STATION

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DAILY PEAK GUSTS IN KNOTS

76. MAY JUN. JUL 5455E 585 785	UN. JUL	685	9	SEP	OCT.	VON 244	DEC DEC	MONTHS
ENE 415 835 845			5754	645	7255W	725	5655E 42	\$ 84
505 585E		-	30E	1	0	8		
5555E 575E			9869		885E			SE 72
535 665			70SSE		575	_		
\$558 S45¥			999		306			S 80
555 815S		w	SHENE		561		12.5	
545 725			2988 ×		33ESE			
6655E 745		w	6255E		3055E	L.,	u	111
69ESE 555E		w	775E		565			SE 87
38NE 475			6 TINE		526			
525 835 75	2				185			
54E 605	82	E	OISSE	1	17SE	3886		SSEIOI
43SSE 44					5555E			
435 585		1			STSSE			
8721 9114 4	4				2609			
8018 5920 7	-		5624		2245	1		
9 6195 94	•		5720		1818		_	19 68
6018 6419 6	9		0268		818			
60 20 6	•		7217		72		_	
8145 600	•		6525		2307			18 77
53.6 55.5 63.7 70.5		65.	2	62.5 65.8		56.9 50.8		82.5
10612.852		3	76311.7	13.	113 9.0	.68310.033	33 7.131	.500
627 616	•						-	

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8

SURFACE WINDS

MC MURDO STATION, ANTARCTICA

87601 STATION

56-77

YEARS

/BASED ON LESS THAN 90% DBSERVATIONS FOR HUNTH!

JAN.	96	86	69	10	52	MEAN
FE.		31				
MAR.	BN SNN					
APR.						
MAY						
JGN.			11			
JUL.				202		
AUG.		7				
SEP.						
OCT.		\$ 62				
NOV						
DEC.						
MONTHS	MINDS	MINDS	NINDS	NINDS	N O S O S O S O S O S O S O S O S O S O	

NAVWEASERVCOM

SURFACE WINDS

2

NAC

DIRECTION AND SPEED

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS)

03 HOURS (L.S.T.) YEARS 73-77 ALL WEATHER CONDITION MC MURDO STATIONS ANTARCTICA

SPEED (KNTS) DIR.	1:3	• •	7 - 10	1.16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	% AI	×	WIND
z	2.6	3.2	1.9	1.3								0.6	6.3
N.N.				9.								9.	12.0
W.Z	9			1.9								2.6	11.0
ENE	1.9		3.8	5.8	9.							12.3	10.2
	1.3	1.3	10.3	7.1	5.6							22.6	10.7
ESE	9.	3.2	3.5	3.9	9.	9.						12.3	10.2
SE	9.	1.3	1.3	1.3								4.5	8.1
SSE				7.9								1.9	11.7
5	9.	9.		9.	9.							2.6	10.5
SSW	9.											0.	2.0
NS.													
WSW													
*													
WWW		1.3										1.3	0.4
ž.	G		0.									1.3	5.5
NNN	1.3	3.2	3.9									3.4	6.5
VARBL													
CALM	X	X	\bigvee	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	20.0	
	11.0	14.	24.5	24.5	4 . 5	9.						100.0	7.4

0

0

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DIRNAVOCEANMET SMOS

155

TOTAL NUMBER OF OBSERVATIONS

3

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 STATION

0

0

SURFACE WINDS

DIRECTION AND SPEED

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS)

NC MURDO STATIONS ANTARCTICA

73-77

YEARS

HOURS (L.S.T.)

NAC

ALL WEATHER

CONDITION

SPEED (KNTS) DIR.											4		
		•	7 . 10	91 . 11	17 - 21	22 - 27	28 - 33	34 - 40	41 . 47	48 - 55	% AI	*	WIND SPEED
z		3.9	3.2	9.								1.1	6.9
NN			9.									9.	8.0
¥	0.		1.9									2.6	6.5
ENE	9.	ç.	1.3	3.9	1.3	1.3						0.6	13.1
	1.9	4.5	12.3	4.	4.5	ç.						32.3	10. R
ESE		3.2	3.2	3.9		9.						11.0	1001
SE			0.	9.								1.3	12.0
SSE		1.3	9.	9.								2.6	8.3
s		1.3		1.3	9.							3.5	11.6
SSW													
»s													
WSW	9.											9.	1.0
*	9.											9.	1.0
WNW	1.9											1.9	2.3
×	9.	9.	9.									1.9	5.3
NNW	9.	5.6	2.6									5.8	5.8
VARBL													
CALM	X	X	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	18.7	
	7.7	18.1	27.1	19.4	6.5	2.6						100.0	7.8

0

0

0

0

10

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 STATION

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87501 STATION

0

0

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0

(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73-77 ALL MEATHER MC MURDD STATION, ANTARCTICA

CONDITION

NOURS (LS.T.)

NAC

10.8 9.0 14.0 1.5 1.0 3.7 5.3 7.9 MEAN WIND SPEED 9. . 7.1 34.2 1.9 6.1 3.9 15.5 16.1 1.3 . 6.3 100.0 128 48 - 55 41 . 47 34 - 40 28 . 33 00 0 1.9 22 - 27 2.6 4.5 .0 17 - 21 5.2.2 26.5 9. 11 . 16 51.9 1.9 3.9 1.3 1.3 0 7 - 10 20.6 9. 3.9 6.9 5.8 0. 1.9 9.0 0.6 9 1.3 1.3 1.3 WWW SPEED (KNTS) DIR. WSW CALM ESE SSW N. VARBL N N E. 32 32 ž S z * . *

0

0

0

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(3)

1

3

1330

TOTAL NUMBER OF OBSERVATIONS

200

155

SMOS DIRNAVOCEANMET

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

20

73-77 ALL WEATHER

MC MURDO STATIONS ANTARCTICA

87601

0

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NAC

12 HOURS (LS.T.)

CONDITION

1.3 5.2 5.2 5.3 5.4 5.5 1.9 5.5 1.9 5.6 5.6 5.7 5.6 5.6 5.7 5.8 5.9 5.0 6.9 6.9 6.9 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	3.9 3.9 3.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1
2.6 1 3.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	2.6 1 3.9 1.9 1.9 1.9 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3
1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	3.0 3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1
11.6 1.9 1.9 1.3 2.6 1.3 1.3 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	1.0 1.9 1.9 1.0 1.3 1.3 1.3 1.3 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9
3.9 1.9 1.9 1.3 3.0 1.3 3.0 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	3.9 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
1.9 17.4 1 1.3 .6 .6 3.2 1 1.9 1.9 1.9 1.9 4.5 4.5	1.9 1.5 1.5 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9
1.5 .6 .6 3.2 1 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	1.3 .6 .6 3.2 1 1.9 1 1.0 1 1.
1.5 .6 .6 3.2 1 1.9 1.9 1.9 2.6 4.5	1.5 .6 .6 3.2 1 1.9 1.9 1.9 4.5 4.5 4.5 4.5 4.5 4.5
1.5 .6 3.2 1 1.9 1.9 2.6 4.5	1.56 3.2 1 1.9 1.9 1 4.5 4.5 4.5 4.5 4.5
2.6	2.6
2.6	φ. φ
2.6	2.6 4.5 4.5 6.4
2.6	2.0 4.5 4.5 4.5
6.5	6.4 6.4 6.4
4.5 6	6.19
4.5 7	4.5 7
	6.4
	#••

919

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155

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

MC MUROD STATIONS ANTARCTICA

73-77

87601 STATION

YEARS

ALL WEATHER

15 HOURS (L.S.T.)

NAC

COMBITION

?	• •	7 . 10	3 . 16	17 - 21	22 . 27	28 - 33	34 - 46	41 - 47	48 . 55	*	*	WIND WIND SPEED
9	1.3	1.3									3.2	6.2
9.	2.6	1.3									4.5	5.4
	1.3	5.5	7.7	9.							14.8	11.5
5.6	3.2	11.6	14.8	3.5							35.5	11.1
9.	9.	2.6	3.2								7.1	6.6
		1.0	1.3	9.							3.9	12.5
		9.		9.							1.3	15.0
	1.3	9.	1.3	1.3	1.3						5.8	14.7
1.3											1.3	2.5
•											9.	2.0
9.											9.	3.0
3.5	1.3										4.5	3.0
c.	9.										1.3	3.0
6:1	9.		9.								3.2	4.6
1.3	9.	3.9	9.								6.9	7.5
	X	\bigvee	X	X	\bigvee	\bigvee	\bigvee	\bigvee	X	\bigvee	5.8	
14.2	13.5	29.0	7.66	A . 5	1.3						0 001	6.0

SMOS DIRNAVOCEANMET

1111

155

TOTAL NUMBER OF OBSERVATIONS

5702 SURFACE WINDS JAN 78

SURFACE WINDS

=

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 MC MURDO STATIONS ANTARCTICA

ALL WEATHER

CONDITION

18 HOURS (L.S.T.)

NAD

WIND	7.0		5.3	10.6	11.5	8.9	9.2	15.5	14.1	18.0	2.5		2.5	0.0		9.9			9.2
×	5.8		1.9	16.1	28.4	11.6	7.7	1.3	5.2	9.	1.3	1.3	1.3	9.	5.8	6.5		4.5	100.0
%																		\bigvee	
48 . 55																		\bigvee	
41 . 47																		\bigvee	
34 - 40																		\bigvee	
28 - 33																		\bigvee	
2.2								•										X	9.
17 - 21				1.3	2.6		9.		1.9	9.					9.			X	7.7
91 . 11				6.5	13.5	1.3	1.3		1.9							1.3		X	25.8
7 - 10	3.2		9.	4.5	6.4	0.6	3.9	9.	9.			9.			0	1.3		X	34.8
*:	1.9		1.3	3.5	1.9	9.	1.3		9.					9.	3.2	5.6		X	17.4
.: .:	9.			0	0.	9.	9.				1.3	9.	1.3		1,3	1.3		X	0.6
SPEED (KNTS) DIR.	z	W.	¥	ENE		ESE	38	SSE		ASS	XS.	WSW	*	WWW	ž	NN.	VARBL	CALM	

DIRNAVOCEANMET SMOS

155

TOTAL NUMBER OF OBSERVATIONS

87601

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

6.7

1.9

MEAN WIND SPEED

128

48 - 55

41 . 47

13.0

13.5

10.3 12.0

4.6

9888

15.0

9.

11.3

1.9

1.7

9. 1.9 8889

4.0

2 4 6

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

2

SURFACE WINDS

MC MURDO STATIONS ANTARCTICA

73-77

YEARS

21 NOURS (L.S.T.)

JAN

COMBITION

WE ATHER

ALL

- 1	
	34 . 46
	28 · 33
	22 - 22
	17 . 21
	11 . 16

SPEED (KNTS) DIR.	z	N N	¥	EE	-	ESE	*	SSE		SSW	SW.	WSW	*	WWW	¥	MNN	VARBL	CALM	
::	1.3	9.			1.9							9.	1.9	1.9	1.3	9.		X	
:		9.	1.3		3.9	1.9								1.3	3.2	1.9		\bigvee	6 75
7 - 10	4.5		2.6				2.6	0.	9.							1.3		\bigvee	33 0
11 . 16	1.9	9.	9.	6.9	10.3	2.6	9.	1.3	1.3	9.								\bigvee	3 45
17 - 21				3.5	1.3		1.3											\bigvee	A . R
22 . 27						9.												\bigvee	7
28 · 33																		\bigvee	
2																		\triangle	

TOTAL NUMBER OF OBSERVATIONS

155

8.6

100.0

4.4

SMOS

DIRNAVOCEANMET

0

87601

0

0

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

HC MURDO STATION, ANTARCTICA

87601 STATION

0

0

0

0

ALL WEATHER

YEARS

ALL HOURS (L.S.T.)

NAC

CONDITION

WIND WIND SPEED	7.1	10.1	7.7	11.4	10.8	10.1	10.1	10.9	13.7	6.7	2.0	3.6	2.5	3.2	5.1	6.5			8.4
×	6.7	4.	3.2	12.1	30.1	11.9	0.4	1.7	3.1	.8	. 3	4.	1.5	2.3	3.1	5.7		12.3	100.0
35 AI																		\bigvee	
48 - 55																		\bigvee	
41 - 47																		\bigvee	
34 - 40																		\bigvee	
28 - 33									. 1									\bigvee	.1
22 . 27				•2	.2	*•		7.	.2	٠,								X	1.2
17 - 21			-:	1.2	2.7		5.		*	.1								X	9
91 - 11	6.	4.	9.	3.4	11.7	3.7	1.1	0.	1.0	.1					7.	4.		X	26.0
7 - 10	2.9	.2	1:1	3.5	10.5	4.2	1.6	9.	.2			7.		7.	**	2.3		X	27.7
• •	1.1	• 1	1:1	1.0	3.6	2.3		.2	9.						1.5	2.2		X	16.2
:	1.2	1.	.3		1.4		2.	7.	.2	9.	.3	€.	1.1	1.5	1.0	8.		X	10.5
SPEED (KNTS) DIR.	z	N N	w Z	ENE	-	ESE	SE	SSE		SSW	SW	WSW	*	WWW	¥	NNN	VARBL	CALM	

1240

TOTAL NUMBER OF OBSERVATIONS

Q

TOTAL NUMBER OF OBSERVATIONS

0

SURFACE WINDS

00 HOURS (L.S.T.)

FEB

YEARS

ALL WEATHER

CONDITION

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) 73-76 MC MURDO STATION, ANTARCTICA NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SPEED (KNTS) DIR.	1.3	9.7	7 - 10	11 . 16	17 . 21	n . n	28 · 33	34 . 26	41.4	48 - 55	8	×	MEAN WIND SPEED
z				2.7								2.7	15.0
NN		1.8	6.			6.						3.6	10.8
¥	2.7	6.		2.7								6.2	7.6
ENE	1.8		4.5	8.0	7.1							21.4	13.5
		5.4	10.7	10.7	2.5	6.						33.0	11.8
ESE		6.	4.5	0.8								13.4	11.5
3		6.	3.6	6.	6.							6.2	10.1
SSE	6.											6.	3.0
8	6.	6.					6.					2.7	12,3
SSW													
SW													
WSW													
*													
WNW													
WW		6.	6.									1.8	6.5
NNW		1.8										1.8	5.5
VARBL													
CALM	\bigvee	\bigvee	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	6.2	
	6.2	13,4	25.0	33.0	13.4	1.8	6.					100.0	10.8

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DIRNAVOCEANMET SMOS

87601 STATION

73

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-76

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SURFACE WINDS

YEARS ALL WEATHER COMBITION MC MURDO STATION. ANTARCTICA

NOURS (L.S.T.)

FEB

O.

87501 STATION

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

9.0

MEAN WIND SPEED

12

48 - 55

7.3

4.4

14.8

9886

7.0

6.6

2.7

7.0

13.3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

87601 STATION

YEARS

ALL WEATHER

06 HOURS (1.5.T.)

FEB

CONDITION

SPEED (KNTS) DIR.

¥ = %

											1			
41.47														
24 . 45														
28 - 33														
22 . 27				6.	4.4									
17 . 21			6.	2.7	10.6	2.7								
91 - 11	1.8	6.	1.8	8.3	1.6	7.1	1.8	5.	6.					
7 - 10			6.	5.3	7.1	3.5	4.4		6.					5
• • •	1.8	6.		6.	1.8		6.							
1:3		6.	6.					0.	6.					
	1			1	1	1	1	1	1	1	1	1	1	1

TOTAL NUMBER OF OBSERVATIONS

10.9

100.0

5.3

17.7

30.1

23.9

6.2

4.4

CALM

0

6

WWW

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N. S VARBL

WSW WSW

SSW

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2 2 2

12.4

113

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

16

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

i

SURFACE WINDS

MC MURDO STATIONS ANTARCTICA

87601

73-76

YEARS

00 HOURS (L.S.T.)

FEB HONTH

ALL WEATHER

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2			
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1.3 1.3 1.3 1.3 1.3 2.6 1.3 2.6 1.3 2.6 1.3 2.6 1.3 2.6 1.3 2.6 1.3 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6		1.3	*:	7 - 10	11 . 16	17 . 21	22 - 27	28 · 33	¥ . \$	41 . 47	48 · 55	%	×	MEAN WIND SPEED
2.6		1.3	1.3		1.3	-							5.3	10.8
1.3 6.6 2.6 6.6 17.1 1 1 2 25.0 1 1 1.3			5.6			in.							3.9	8.7
1.3 6.6 2.6 6.6 1.3 1.3 2.6 1.3 1.3 2.6 1.3 1.3 2.6 1.3 1.3 2.6 1.3 1.3 2.6 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	1		1.3		5.6	1.3							5.3	12.8
1.3 7.9 6.6 7.9 3.9 1.3 1.3 2.6 1.3 2.6 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	1		1.3	6.9	5.6								17.1	
1.3 7.9 6.6 1.3 1.3 2.6 1.3 1.3 2.6 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	1		5.3	9.9	7.9		1.3						25.0	11.8
1.3 2.6 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3		1.3	1.3	4.9	9.9	-							18.4	10.6
1.3 1.3 2.6 5.3 1 1.3 2.6 5.3 1 1.3 1.3 2.6 5.3 1 1.3 1.3 1.0 100.0 1	1		1.3	2.6	1.3								5.3	8.8
1.3 2.6 1.3 1.3 1.3 1 15.8 26.3 23.7 18.4 1.3				1.3									1.3	10.0
1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3		1.3			1.3								5.3	13.0
1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3														
1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3														
1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3														
1.3 1.3 15.8 26.3 23.7 18.4 1.3														
15.8 26.3 23.7 18.4 1.3			1.3										1.3	5.0
15.8 26.3 23.7 18.4 1.3														
15.8 26.3 23.7 18.4 1.3				1.3									1.3	10.0
15.8 26.3 23.7 18.4 1.3														
15.8 26.3 23.7 18.4 1.3	V \1	X	X	X	\bigvee	10.5								
		3.9					1.3						100.0	10.3

0

7.5

1.8

8.9

6.9

3.6

13.3

7.1

13.5

6.2

11.6

33.9

5702 SURFACE WINDS JAN 78

1.8 6.5

*

17 56

48 - 55

41 - 47

34 - 40

9.0 MEAN WIND SPEED

12 HOURS (L.S.T.)

FEB

8880

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-76

MC MURDO STATIONS ANTARCTICA

ALL MEATHER

CONDITION

	-	
	28 - 33	
8.1	22 - 22	
2.7	17 . 21	
2.9	51 · 15	
6.		

7 . 10

4.6

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+	1.8	1.8					
-	2.7	5.9	4 . 5	5.	1 . 8		

16.1 2.1

2.7

1.8

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2.7

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6.

							X	
The second secon							\bigvee	3.6
	1.8						\bigvee	16.1
	3.6	6.	6.				\bigvee	8.4

1.8

6.

WNW

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SSW

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SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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87601 STATION

10.01

MEAN WIND SPEED

13.0

16

TOTAL NUMBER OF OBSERVATIONS

1111

100.0

3.9

11.6

35.5

28.9

11.8

2.0

0

0

10

1,3

N N VARBL CALM

N

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

H

SURFACE WINDS

ALL MEATHER

1.5 HOURS (L.S.T.)

F F B

73-76

MC MURDO STATIONS ANTARCTICA

YEARS

CONDITION

17.1 27.6 14.5 3.9 5.3 2 2 2 2 2.6 103 5.3 12 33 4 4 7 4 2 33 58 1.3 27 22 3.9 1.3 1.3 . 2 1 2.6 11.8 3.9 2.6 5.3 11 . 16 3.00 2.0 2.6 2 1.

3.9

SPEED (KNTS) DIR.

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SW

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WSW

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13.3

DIRNAVOCEANMET

NO 12595 62181

87601 STATION

SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-76

MC MURDO STATIONS ANTARCTICA

YEARS

18 NOURS (LS.T.)

FEB

SURFACE WINDS

ALL MEATHER

COMBITION

	anner 1
10.00	
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	-

MEAN WIND SPEED	6.7	0.4	10.5	14.1	14.3	12.6	12.1	12.3	13.0	20.0			2.0	5.5	7.3	6.0			11.8
×	2.7	6.	1.8	17.1	34.2	12.6	7.2	5.4	1.8	6.			6.	1.3	3.6	1.8		7.2	100.0
8																		X	
48 - 55																		\bigvee	
41 . 47																		\bigvee	
34 - 40																		\bigvee	
28 · 33																		\bigvee	
n · n				6.	3.6	6.												X	5.4
17 . 21				3.6	0.6	2.7	1.8			6								X	16.0
11 - 16			6.	7.2	12.6	3.6	1.8	3.6	1.8									X	31.5
7 . 10	30		6.	3.4	5.4	4.5	2.7	1.8						6.	2.7	6.		X	27.0
9 :	6.	6.			3.6	6.	6.								6.	6.		X	0.6
.: ::													6.	6.				X	1.8
SPEED (KNTS) DIR.	z	W.	¥	E		ESE	*	SSE		SSW	SW	WSW	*	WWW	XX	NNN	VARBL	CALM	

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

0

0

87601 STATION

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SS SS SSE

SPEED (KNTS) DIR.

FEB MONTH 21 HOURS (L.S.T.)

SUL S

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

20

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-76

YEARS

MC MURDO STATIONS ANTARCTICA

87601 STATION

ALL WEATHER

CONDITION

WIND WIND SPEED	17.0	10.0	16.8	12.4	10.5	10.5	14.5	10.3	12.0		10.0	12.0	5.5		10.9
×	1.3	6.9	13.0	39.0	10.4	5.2	2.6	3.9	1.3		1.3	1.3	5.6	11.7	100.0
95 1														X	
48 - 55														X	
41.4														\bigvee	
34 . 40														\bigvee	
28 - 33														X	
22 - 27		1.3	2.6	1.3										X	5.2
17 - 21	1.3		3.2	3.9			1.3	1.3						X	13.0
91 - 16			3.9	18.2	3.9	3.9	1.3		1.3			1.3		X	33.8
7 . 10		3.9	1.3	13.0	5.5	1.3		1.3			1.3			X	27.3
*					1.3								5.6	X	3.9
::		1.3		2.6				1.3						X	5.2

WNW

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*NN VARBL

CALM

1

0

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WSW WSW

SSW

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77

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS JAN 78

SURFACE WINDS

2

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATIONS ANTARCTICA

73-76

YEARS

ALL WEATHER

ALL HOURS (L.S.T.)

FEB

CONDITION

SPEED (KNTS) DIR.

z z z z

MEAN WIND SPEED	10.4	8.2	8.6	14.4	13.0	11.7	10.4	12.1	11.3	10.4	2.0		2.0	6.9	7.3	7.1		11.0
*	3.3	1.9	6.4	15.9	33.1	12.7	9.9	3.8	3.2	1:1	7.		. 3	. 7	1.6	1.9	0.6	100.0
95 Al																	\bigvee	
48 - 55																	\bigvee	
41 - 47																	\bigvee	
34 · 40																	\bigvee	
28 - 33																	\bigvee	
22 - 27		1.	.1	6.	2.1	.3			7.								X	3.8
17 . 21	4.	•		4.4	6.9	1.6	. 7	. 7	15.	6.						•1	X	15.5
11 . 16	1.3	.3	1.6	6.2	12.2	5.0	2.0	1.6	6.	. 3					.3		X	31.7
7 . 10	.,	7.	1.5	3.6	8.5	4.4	3.0	6.		٠.		1	. 1	4.			X	25.3
9:	1.	80		5.	3.0	1.2	6.	.3	.3	1.				.1	3.	. 8	X	9.8
.:	*.	4.			00	.3		.3	. 7	.3	٦.		1.	.1	.1		X	9.4

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NW NWW

CALM

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DIRNAVOCEANMET SMOS

2

755

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 STATION

MEAN WIND SPEED

12

48 - 55

41 . 47

34 - 40

28 - 33

22 - 27

17 . 21

11 . 16

7 - 10

4.6

1.3

SPEED (KNTS) DIR.

12.5

11.0

14.3 10.8 15.4 1.0

17:4

3.5

4.0

3.2

12.9

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5.6

5.4 1.6

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATIONS ANTARCTICA

73-76

00 HOURS (L.S.T.)

MAR

ALL WEATHER

CONDITION

1.6

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WSW

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SW

SSW

VARBL CALM

1.6

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TOTAL NUMBER OF OBSERVATIONS

44.6

124

13.2

100.0

4.8

9.7

20.5

24.2

20.5

11.3

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DIRNAVOCEANMET SMOS

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87601 STATION

000

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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DIRECTION AND SPEED

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

YEARS

ALL MEATHER

NOVRE (L.S.T.)

MAR.

CONDITION

MEAN WIND SPEED	5.8	9.2	19.1	15.7	15.7	14.0	19.2	3.0	36.0	1.0	4.7	9.0	7.5		14.1
*	3.2	0.4	10.5	42.7	18.5	3.2	0.4	80	8.	00	5.4	1.6	1.6	5.6	100.0
8														X	
48 - 55														X	
41.40														X	
34 - 46									\$					X	8
28 - 33			1.6	5.4			80							X	5.6
22 - 27			2.4	5.6	8.4	80				T				X	13.7
17 - 21			2.4	11.3	5.4		9.1							X	17.7
11 - 16		1.6	3.2	13.7	3.2	1.6	1.6					8.		X	25.8
7 - 10	1.6	1.6	37	5.6	5.6	8					\$	æ.		X	18.5

30

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0.0

2.4

- 2

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4.6

1.3

SPEED (KNTS) DIR.

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8

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 STATION

DIRNAVOCEANMET SMOS

200

124

TOTAL NUMBER OF OBSERVATIONS

3.5

6.9

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WSW * *

SSW

SW

8

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SSE

25

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATION, ANTARCTICA

YEARS

12 HOURS (L.S.T.)

MAR

ALL WEATHER

CONDITION

SPEED (KNTS) DIR.

z

Z Z

SE SE SSE n

	7 - 10	1 . 16	17 - 21	22.27	28 - 33	34 - 40	41.47	48 - 55	99	*	WIND
120	00									1.6	6.5
-										. 8	10.0
20	00	1.6								0.4	9.2
8	00	4.0	1.0	8.						6.8	12.9
0	0.4	16.9	10.5	3.2	•					41.9	14.0
0	4.8		33	1.6	3					17.7	12.4
-	3.2	4.8	1.6							6.6	12.8
-	1.0	3.								2.4	11.3
8		80.				8.				3.2	16.0
						. 8				2.4	18.3
1											
20										.8	0.4
-										8.	8.0
-										8.	12.0
	8									.8	10.0
-											
	X	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	0.4	
-	19.4	35.5	15.3	5.6	1.6	1.6				100.0	12.5

WNW

*

WSW WSW

SSW

VARBL

CALM

NN.

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180

124

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 atarion

MAR

SURFACE WINDS JAN 78

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MC MURDO STATIONS ANTARCTICA

73-76

1.8 HOURS (L.S.T.)

CONDITION

ALL WEATHER

0

0

MEAN WIND SPEED	.8 12.0	1.6 7.0	2.4 16.7	7.3 12.6	47.6 15.3	16.1 14.3	5.6 10.0	4.0 11.6	1.6 11.5	2.4 25.0		.8 2.0	0.81 8.		.8 10.0	1.6 15.0		6.9	
85																		X	
48 . 55																		X	
41 - 47																		\bigvee	
34 - 40										8.								\bigvee	
28 - 33			.8		0.4	1.6				.8								\bigvee	
22 - 27				8.	3.2	1.6												\bigvee	
17 . 21			3.	1.6	13.7	3.2							8.					X	
91 - 11	Φ.			8.	12.9	4.0	1.6	1.6								1.6		X	
7 . 10		. 8		3.2	8.9	5.4	5.4	8	8.	30					30			X	
9:4		. 8		8.	4.2	1.6	1.6	. 8										X	
1.3			90		5.4	1.6						80						X	
SPEED (KNTS) DIR.	z	W Z	¥	ENE		ESE	25	SSE	•	SSW	NS.	WSW	*	WWW	¥	NNN	VARBL	CALM	

111

TOTAL NUMBER OF OBSERVATIONS

944

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

87601

1.0

MEAN WIND SPEED

13.4

9.5 2.44

14.9

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

ALL

ALL HOURS (LS.T.)

MAR

NEATHER CLASS

COMDITION

12 . 55 4 41 - 47 2. 4 2 2.2 1.6 .2 2 . 33 58 773 1.2 22 . 27 11.9 5.4 0.8 2 3. . 2 17 2.2 4.4 1.4 4 30 11 . 16

3000

3.0

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ESE 22 23

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1.8 0 4

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7 - 10

-3

(KNTS)

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TOTAL NUMBER OF OBSERVATIONS

964

13.3

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8.4

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19.8

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NNA VARBL CALM

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SMOS DIRNAVOCEANMET

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

87601

0

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MC MURDO STATION, ANTARCTICA

87601 STATION

73-76

APR

ALL WEATHER

00 HOURS (L.S.T.)

COMBITION

8. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	SPEED (KNTS) DIR.		• •	7 - 10	11 . 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	% AI	×	MEAN WIND SPEED
3. 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.	z	1.7	1.7	.8	3.3								8.3	10.1
1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	N.		30.		30								1.7	0.6
8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	N.					8.							3.3	8.8
8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	E		1.7	3.3	4.2								14.2	14.0
3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	-		6.7	3.8			5.8	1.7					33.3	14.1
3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3	ESE	8.		1	3.3								7.5	11.3
8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	35	1.7			8.	8.							3.3	10.0
8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	SSE		30.		1.7	9.		. 8					4.2	16.0
	s	1.7		8.	1.7		8.						5.8	11.9
8.	SSW												8.	0.4
8.	SW													
8.	WSW													
8. 8. 6. 7. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	*					,								
8. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	WWW			9.									8.	10.0
9.	¥	8					20.						1.7	12.5
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NNN												9.	2.0
1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VARBL													
E 2 C 11 O 20 C C 1	CALM	X	X	\bigvee	\bigvee	\bigvee	\bigvee	X	\bigvee	\bigvee	\bigvee	\bigvee	14.2	
19.5 23.0 14.5		8.3	14.2	13.3	25.0	14.2	8.3	2.5					100.0	10.9

06 HOURS (L.S.T.)

APR

YEARS

73-76

MC MUROD STATION, ANTARCTICA

ALL WEATHER

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SURFACE WINDS

MEAN WIND SPEED 2.5 2.9 2.9 2.9 2.9 3.9 3.9

8

48 - 55

41 . 47

34 - 40

28 . 33

22 . 27

17 - 21

11 . 16

7 - 10

1.3

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5702 SURFACE WINDS JAN 78

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17.5

23.3

18.3

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5.8

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TOTAL NUMBER OF OBSERVATIONS

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

87601

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WSW WSW

SSW

WNW ž NNW

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CALM

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PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-76

MC MURDO STATION, ANTARCTICA

87601 STATION

0

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YEARS

12 HOURS (L.S.T.)

APK

ALL WEATHER

SPEED (KNTS) DIR.	÷.	:	7 - 10	11 . 16	17 . 21	12 - 22	28 - 33	34 - 40	41.4	48 - 55	VI %	*	MEAN WIND SPEED
z	20.			1.7	8.							4.2	12.0
NNE	8.	. 8										1.7	4.0
¥		1.7		80.	1.7							4.2	12.2
ENE	8.		4.2	3.3	5.6	1.7						16.7	14.0
~	2.5	2.5	7.5	8.3	5.0	4.2	1.7					31.7	13.9
ESE	1.7		2.5	4.2	3.3							11.7	12.4
38	8.		1.7	8.	30.							4.2	10.4
SSE	80											2.5	10.3
*		20.										4.2	20.0
SSW	8.											9.	3.0
SW													
WSW													
*													
WWW		8,			@C							1.7	11.5
WW		8.										8.	5.0
NNW												8.	7.0
VARBL													
CALM	\bigvee	\bigvee	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	15.0	
	9.2	8.3	18.3	20.0	20.0	5.7	1.7	8.				100.0	11.1

SURFACE WINDS JAN 78 5702

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS)

73-76 ALL WEATHER

MC MURDO STATIONS ANTARCTICA

1.8 HOURS (L.S.T.)

APR

CONDITION

NNE 1.7 1.7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	SPEED (KNTS) DIR.	£:-	9:-	7 - 10	11 . 16	17 . 21	22 - 27	28 - 33	34 - 40	41.0	48 - 55	3 9	×	WIND WIND SPEED
1.7	z	1.7	1:1										4.2	0.9
1.7 .8 .8 .8 4.2 1.7 .8 3.3 1.7 .6 8.3 3.3 1.7 1.7 .8 8.3 3.3 <td>W X</td> <td></td>	W X													
1.7	Z.	8	1.7										4.2	4.6
1.7 6.7 1.7 7.5 7.5 .8 33.3 34.3 35.3 5.0 1.7 1.7 38.8 38.8 39.8 10.8 39.8 10.9 39.8 10.9 39.8 10.9 10.9 10.9 10.9 10.9 10.9	ENE	1.7			3.3	1.7							8.3	12.8
.8 .8 .8 .1.7 1.7 1.7 1.7 1.8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .		1.7	1.0	1:1	7.5	4.5	-	. 3					33.3	15.3
.8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .	ESE			3.3	5.0	1.7	1.1						15.8	11.5
.8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .	SE			8.									1.7	11.0
.8 .8 .8 .8 .1.7 .1.7 .1.7 .1.7 .1.7 .1.	SSE			8.				30					2.5	14.3
8. 8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8							1.7						5.0	18.
8. 8 .8 2.5 8. 8. 8. 1.7 11.7 11.7 11.7 100.0	SSW	8.											8.	2.(
6.3 17.5 9.2 20.8 11.7 11.7 11.7 100.0	X.S		30	8.									1.7	7.
8. 3 . 6 . 8 . 1.7 11.7 11.7 100.0	WSW													
6.3 17.5 9.2 20.8 11.7 11.7 1.7 8.8	*													
6.3 17.5 9.2 20.8 11.7 11.7 1.7 .8	WNW		8.		. 8								2.5	9.
6.3 17.5 9.2 20.8 11.7 11.7 1.7 8.8	¥													
6.3 17.5 9.2 20.8 11.7 11.7 1.7 .8	NNW			3.	00								1.7	12.
6.3 17.5 9.2 20.8 11.7 11.7 1.7 .8	VARBL													
17.5 9.2 20.8 11.7 11.7 1.7 .8	CALM	\bigvee	X	X	X	\bigvee	18.3							
		8.3	17.										100.0	10.6

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DIRNAVOCEANMET SMOS

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120

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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1.7

ESE

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SSE 25

2 2 7 0

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WZ

1.0 5.5 4. 2.

0:1 3.7 9.6

1.7

2.1

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15.6

SURFACE WINDS

200

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATION, ANTARCTICA

WEATHER CLASS ALL

ALL HOURS (LS.T.)

APR

CONDITION

5.7 11.5 MEAN WIND SPEED 31.9 3.3 3.5 × 2 48 - 55 . 47

7

34 - 40

28 . 33

22 . 27

- 2

-

11 . 16

7 - 10

4.6

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0

10.8 480 100.0

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TOTAL NUMBER OF OBSERVATIONS

4

1.7

8.1

15.8

22.3

14.8

13.3

1.9

CALM

VARBL

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601

WSW

SSW NS. *N* ž ž

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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87501 STATION

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PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

NOURS CLS.T. MAK YEARS 73-76 ALL WEATHER COMDITION MC MURDD STATIONS ANTARCTICA

	1.3	*	7 . 10	11 . 16	17 . 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	85 AI	*	WIND WIND SPEED
z	80	1.6		0.								3.5	6.5
NNE	1.6											1.6	2.0
NE	5.4		8.		€ •	eo •						6.4	9.8
ENE	1.6	0.	00	7.3	5.4	2.4						15.3	13.8
	3.2	0.4	2.0	13.7	8.1	3.5						38.7	13.4
ESE	89.	00	1.0	2.4								6.5	11.3
SE			•									1.6	14.0
SSE				1.6	**	1.0						0.4	18.6
8			1.0	8.	a.	3						4.30	13.5
SSW				.0								. 8	14.0
SW													
WSW												8.	2.0
WWW													
*	60	1.6										2.4	3,3
NNN		. 8		10								1.6	9.5
VARBL													
CALM	X	X	X	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	13.7	
	12.1	10.5	11.3	28.2	14.5	8.9	8.					100.0	10.8

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

S.

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

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	СОМЫТІОМ	
MOUR	CLASS	
60	ALL MEATHER	4
2	YEARS	STATION NAME
MAY	76	DO STATION, ANTARCTICA
	DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)	DIREC (FROM HO

SPEED (KNTS) DIR.	1.3	9.+	7 - 10	51 . 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	8 Al	*	
z		100.0										100.0	0
NNE													
NE													
ENE													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
*													
WNW													
NW													
NNW													
VARBL													
CALM	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	X	\bigvee	\bigvee	\bigvee	\bigvee	0.	0
		100.0										0 001	-

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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATION. ANTARCTICA

73-76

YEARS

ALL WEATHER

06 HOURS (L.S.T.)

MAY MONTH

COMBITION

SPEED (KNTS) DIR.	1.3	•	7 . 10	11 · 16	17 - 21	22 - 27	28 - 33	34 . 46	4 . 4	48 - 55	% A1	*	MEAN WIND SPEED
z			oca .	1.6								5.4	10.0
NNE	8.											oc.	3.0
NE			1.6									2.4	10.
ENE	2.4	1.6		1.6	8.4							12.1	::
		4.5	8.1	10.5	10.5	6.00	•					41.1	15.
ESE			6.5	1.6	•	00						4.4	11.
SE				00								1.6	21.5
SSE				0.1	·							4.3	17.0
8		8.				00	8.					2.4	19.0
SSW													25.0
SW	. 8											3.	2.0
WSW													
*													
WWW			. 8									8.	10.0
NW				. 8		80						1.6	17.0
NNN												ac.	7.0
VARBL													
CALM	\bigvee	\bigvee	X	X	X	X	X	X	X	X	\bigvee	17.7	
	4.0	5.6	20.2	19.4	16.9	12.9	3.2					100.0	11.8

87601

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

5702 SURFACE WINDS JAN 78

SURFACE WINDS

288

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER 16 MC MURDO STATION, ANTARCTICA

CONDITION

NOURS (L.S.T.)

MAY

(KNTS)	::	:	7 . 10	91 - 11	17 . 21	22 . 27	28 - 33	34 - 40	41 . 47	48 - 55	% %		×
z													
NNE													
W.													
ENE													
ESE													
SE													
SSE													
s													
SSW													
SW													
WSW													
*													
WWW													
NW													
NNW													
VARBL													
CALM	\bigvee	\bigvee	\bigvee	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	10	100.0
													0000

100

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87501 STATION

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

ALL WEATHER

12 HOURS (LS.T.)

MAN

SPEED (KNTS) DIR.	1.3	• •	7 . 10	91 . =	17 - 21	22.27	28 - 33	34 . 46	41 - 47	48 - 55	% Al	*	MEAN WIND SPEED
z	100		83	9.1								3.2	10.3
NN	0	1.6			20							3.2	7.0
w Z	8		2.4									0.4	6.8
ENE	8.			4.0	5.6	3.2						16.9	15.4
-	1.6	1.6		15.3	8.1	4.0	1.6					36.3	15,3
ESE		2.4		3.2								7.3	10.2
35				2.4	1.6	80						6.8	15.
SSE	80				5.4							3.2	15.
•				8.								1.6	16.0
SSW													
SW													
WSW													
*													
WWW													
ž						9.							22.0
MNN	80	. 8	33									3.2	6.8
VARBL													
CALM	X	\bigvee	\bigvee	X	\bigvee	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	13.7	
	6.5	8.9	12.1	29.0	19.4	6.8	1.6					100.0	11.9

DIRNAVOCEANMET SMOS

(3)

20

E ..

124

TOTAL NUMBER OF OBSERVATIONS

87601

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

MEAN WIND SPEED

12

48 . 55

41 - 47

34 - 40

28 . 33

22 . 27

17 - 21

11 . 16

7 . 10

4.6

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5800

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

MC MURDO STATION, ANTARCTICA

76

YEARS

ALL MEATHER

1.5 HOURS (L.S.T.)

MAK

CONDITION

100.0

100.0

WWW

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WSW

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SSW

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VARBL

CALM

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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

87601 STATION

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

3.2

MEAN WIND SPEED

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128

. 55 2

. 47 7

34 - 40

28 - 33

22 - 27

17 - 21

11 . 16

7 . 10

1.3

SPEED (KNTS) DIR.

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16.2 3.0 8.0

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATION. ANTARCTICA

73-76

VEARS

18 NOVRS (L.S.T.)

MAY

ALL WEATHER

CONDITION

TOTAL NUMBER OF OBSERVATIONS

124

11.6

100.0

9.7

18.5

29.0

18.5

4.8

5.4

16.9

100

DIRNAVOCEANMET SMOS

20

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

87601

0

VARBL CALM

2

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

	MAY	MONTH	21	HOURS (L.S.T.)	
(FROM HOURLY OBSERVATIONS)	MURDD STATION. ANTARCTICA 76	STATION MARE YEARS	ALL WEATHER	CLASS	CONDITION

87601 STATION

0

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1888

3

3110

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATION, ANTARCTICA

87601 STATION

YEARS

ALL HOURS (L.S.T.)

MA W

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ALL WEATHER

CONDITION

SPEED (KNTS) DIR.	1.3	•	7 . 10	11 . 16	17 . 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	% AI	×	MEAN WIND SPEED
z	4.	9.	8.	1.2	•2							3.2	9.5
NNE	0	5.			5.0							1.4	5.0
ž	1.0	4.	1.8	.2	.2	4.						4.0	8.9
ENE	1.2	1.0	1.6	4.8	9.4	2.0						15.2	14.3
	1.4	9.5	6.2	13.8	0.6	5.0	9.					38.8	14.6
ESE	.2	8.	2.8	2.4	9.	2.						7.0	11.5
35		.2	5.	1.2	9.	9.	.2					3.2	16.3
SSE	.2	.2	.2	1.0	1.2	9.	.2					3.6	16.8
s		5.	9.		9.	9.	.2					3.2	15.7
SSW	2.			.2		.2						9.	14.0
SW.	.2											2.	2.0
WSW	.2											• 5	2.0
*													
WWW			5.									4.	0.6
×	.2	9.	4.	.2		4.						1.8	6.6
NNN	.2	4.	4.	4.								1.4	7.6
VARBL													
CALM	\bigvee	X	X	X	X	X	\bigvee	\bigvee	\bigvee	X	\bigvee	15.8	
	6.4	7.6	15.6	26.2	17.2	10.01	1.4					100.0	11.4

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TOTAL NUMBER OF OBSERVATIONS

200

DIRNAVOCEANMET SMOS

SURFACE WINDS JAN 78

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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MC MURDO STATIONS ANTARCTICA

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73-76

YEARS

NOURS (L.S.T.)

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COMBITION

ALL WEATHER

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N N	1.7		3	8.								4.2	9.6
2		2.5										2.5	5.3
-	20												3.0
E E	1.7	8.	.8	2.5	2.5	1.7						10.1	14.1
	1.7	2.5	5.9	1001	1001	2.5						32.8	14.1
ESE	1.7		2.5	5.0	1.1		00	œ.				12.6	15.1
**		2.5	1.7	2.5	8.	8.						4.8	12.2
SSE	20			3.4	2.5							6.7	14.1
~			. 8	2.5		40						7.6	50.9
SSW					9							8.	20.0
NS.													
WSW	1.7											1.7	2.0
*													
WNW													
WW													
NNW		. 3										8.	4.0
VARBL													
CALM	X	X	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	10.9	
	10.1	9.2	12.6	26.9	19.3	4.6	1.7	9.				100.0	12.3

TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

E

SURFACE WINDS

MC MURDO STATION, ANTARCTICA

73-76

YEARS

ALL WEATHER

NOURS (L.S.T.)

NO.

CONDITION

7.5 4.5 19.3 14.9 MEAN WIND SPEED 33.6 1.7 * 128

48 - 55

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33

28

22 - 27

17 . 21

11 . 16

7 - 10

1.3

SPEED (KNTS) DIR.

19.4 14.5 13.6 18.9 30.0 17.6 8.4 5.9 4.2

III.

0.4 12.3 17.6 80 100.0

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119

TOTAL NUMBER OF OBSERVATIONS

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DIRNAVOCEANMET SMOS

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TOTAL NUMBER OF OBSERVATIONS

12.7

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

200

SURFACE WINDS

73-76

YEARS

ALL WEATHER

12 HOURS (L.S.T.)

NOW THE

CONDITION

SPEED (KNTS) DIR.	1.3	9.7	7 - 10	11 . 16	17 . 21	22 - 27	28 - 33	34 - 40	41.47	48 - 55	8	×	MEAN WIND SPEED
z		1.7	00									2.5	6.7
W.					• 01							. 8	17.0
¥		2.5										2.5	5.0
ENE	30	20	1.7	1.7	2.5	1.7	8.					10.0	15.0
	Φ.		8.	11.7	11.7	8.	8					27.5	16.0
ESE			3.3	4.2	5.0	8.						14.2	14.4
35	1.7	1.7	1.7	5.0	1.7	20.						12.5	11.9
SSE	20		1.7	2.5	2.5	80						8.3	14.9
•		8.			1.7		3.3					5.8	23.4
SSW						8.						. B	24.0
SW													
WSW													
*													
WNW													
NW													
NNN													
VARBL													
CALM	\bigvee	\bigvee	\bigvee	X	\bigvee	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	15.0	
	4.2	9.2	10.0	25.0	25.8	30.	5.0					100.0	12.7

DIRNAVOCEANMET SMOS

87601

MC MURDO STATIONS ANTARCTICA

10

MEAN WIND SPEED

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48 - 55

41 - 47

34 - 40

28 - 33

22 - 27

17 - 21

11 - 16

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATION, ANTARCTICA

YEARS

18 HOURS (1.5.T.)

NO NE

WEATHER CLASS

ALL

CONDITION

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23.5

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TOTAL NUMBER OF OBSERVATIONS

118

12.1

100.0

1.7

11.9

19.5

19.5

15.3

7.6

3.4

19.5

DIRNAVOCEANMET SMOS

20

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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87601 STATION

1.7

MEAN WIND SPEED

22 - 27

17 - 21

11 - 16

7 . 10

4.6

1.3

SPEED (KNTS) DIR.

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURBO STATIONS ANTARCTICA

73-76

YEARS

ALL HOURS (LS.T.)

NON

ALL WEATHER

CONDITION

128 48 - 55 41 . 47 ~ 34 - 40 2 2 2 2 2 2 2 2 28 - 33

TOTAL NUMBER OF OBSERVATIONS

476

12.3

100.0

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8.6

19.3

26.7

12.2

4.8

4.8

VARBL CALM

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DIRNAVOCEANMET SMOS

18159-94351

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 STATION

MEAN WIND SPEED

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SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATION, ANTARCTICA

YEARS

CONDITION

ALL MEATHER

HOURS (L.S.T.)

JUL MONTH

28 - 33

22 . 27

17 - 21

11 . 16

7 . 10

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SPEED (KNTS) DIR.

4.0 e 00 0 14.5 100.0

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TOTAL NUMBER OF OBSERVATIONS

90

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11.3

18.5

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124

12.1

DIRNAVOCEANMET SMOS

7 12095 62181

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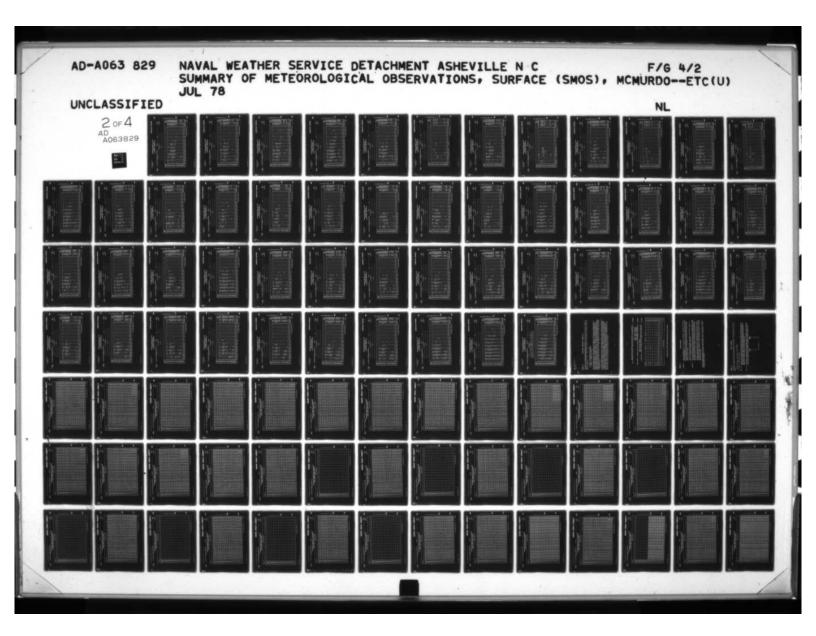
NN. VARBL CALM

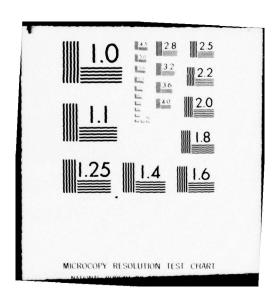
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87601 STATION





MEAN WIND SPEED

28 - 33

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SPEED (KNTS) DIR.

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2.5 10.0 9.0 15.0

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATION, ANTARCTICA

87601 STATION

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73-76

YEARS

WEATHER CLASS

ALL

06 HOURS (L.S.T.)

CONDITION

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30.7 2 30.7 3 30.7 3 30.7 3

TOTAL NUMBER OF OBSERVATIONS

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DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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SURFACE WINDS JAN 78

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

ALL WEATHER HC MURDO STATION, ANTARCTICA

87601

73-76

COMBITION

12 HOVES (LS.T.)

17

3.2 2.27 28.33 34.40 41.40 3.2 3.2				-			1	1						
1.6 3.2 3.2 3.8 1.6 1.6 3.8 1.6 1.6 3.8 1.6 1.6 3.8 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	KNTS)	1.3	•	7.10	11 - 16	17 - 21	2.2	28 - 33	3 8	4 . 4	48 - 55	% %	*	MEAN WIND SPEED
1.6 3.2 2.4 .8 1.6 7.3 .8 1.6 1.6 3.2 3.2 6.5 7.3 7.3 7.3 .8 1.6 3.0 4.0 2.4 .6 1.6 3.0 4.0 2.4 .6 1.6 3.0 4.0 1.6 2.4 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 3.0 4.0 1.6 3.0 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	z				3.2		. 8						4.0	13.8
1.6 3.2 2.4 .8 1.6 1.6 3.1 3.2 6.5 7.3 7.3 .8 1.6 1.6 8.9 4.0 2.4 .6 1.6 8.9 4.0 2.4 .6 1.6 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	NNE	.8	8.	1.6									4.0	
1.6 3.2 3.2 6.5 7.3 .8 1.6 3.2 6.5 7.3 .8 1.6 1.6 8.9 4.0 2.4 1.6 1.6 8.8 5.4 1.6 1.6 2.4 1.6 1.6 8.8 1.6 1.6 8.8 1.6 1.6 8.8 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.7 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.7 1.6 1.6 1.6 1.7 1.6 1.6 1.6 1.7 1.6 1.6 1.6 1.7 1.6 1.6 1.6 1.6 1.7 1.6 1.6 1.6 1.6 1.7 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	W.													
1.6 3.2 6.5 7.3 7.3 .8 1.6 8.9 4.0 2.4 3.8 2.4 1.6 .8 3.8 2.4 1.6 .8 3.8 2.4 1.6 .8 3.8 2.4 1.6 .8	ENE	1.6		2.4		1.6							6.9	10.3
3. 4.0 2.4 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8		1.6	3.2	3.2		7.3	7.3	9.					29.8	16.0
8. 8. 6. 6. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	ESE		1.6	1.6		0.4	2.4						18.5	14.7
8. 8. 1.6 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8	SE			1.6									3.2	7.3
8. 8. 8. 8. 9.1	SSE			4.0	1.6	5.4							8.9	14.0
					8.	5.4	1.6	•					6.9	19.5
8. 9.1	SSW			80.									1.6	5.5
8· 9·1	SW									9.				45.0
9.1	WSW													
	*													
8.	WNW				. 8								. 3	15.0
	W													
	MNN	1.6	8.										2.4	3.0
	'ARBL													
	CALM	\bigvee	\bigvee	\bigvee	X	X	X	X	X	\bigvee	\bigvee	\bigvee	12.9	
1.3 13.3 24.6 1/01 12.9 1.00		7.3	7.3	15.3	24.5	17.7	12.9	1.6		8.			100.0	12.4

188

124

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-76 ALL WEATHER

MC MURDO STATION, ANTARCTICA

87601

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1.8 HOURS (L.S.T.)

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80	5.4	1.6								7	4.8
NE NE	1.6	8.	8.							7	0.4
	00	5.4								3	3.2
. 8.	1.6									*	4.0
S 6.0 2	2.4	6.9	4.7	6.9						28.2	~
1.6	8.4	4.0	5.6							16.9	0
8. 8.	1.6	5.4		*						6.9	2
355	1.0	3.2	30							6.5	2
s	8.		.8	.8						0.4	C
SSW						1.6				2.4	3
SW SW											
WSW											8
*	20									•	8
WWW	. 8									•	8
MW											
NHW		1.6								1.	6
VARBL											
CALM	$\langle \rangle$	X	X	X	X	\bigvee	\bigvee	X	\bigvee	16.1	-
3.2 8.1 19	19.4	22.6	17.7	9.7	.8	1.6		8.		100.0	0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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73-76

MC MURDD STATION, ANTARCTICA

87601

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YEARS

ALL HOURS (LS.T.)

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ALL WEATHER

COMDITION

MEAN WIND SPEED	9.1	9.2	8.5	12.0	15.9	13.9	1001	14.0	20.7	23.3	26.7	10.01	0.6	4.0	5.7		12.2
*	3.2	3.4	1.6	5.4	26.4	17.1	7.9	7.7	6.7	2.6	0.	*	9.	.2	1.4	14.7	100.0
%																X	
8 . 55									7.							X	2.
41.4											2.					X	2.
34 . 46									.2	4.	2.					X	
28 - 33					4.		.2	.2	1.0	3.						X	2.6
22 - 27	.2				0.9	1.4	.2		2.0	80.		1				X	12.3
17.21		*•		.8	7.1	3.8	• 2	1.4	. 8			1				X	14:5
11 . 16	1.4	9.	9.	1.0	0.9	7.3	5.4	2.2	8.				.2		4.	X	23.0
7 - 10	9.	1.2	0.	1.4	5.6	3.4	2.6	2.2	1.2	.2		4.	.2			X	16.7
*;	4.	.8		4.	3.2	1.2	1.8	8.	4.	.2			.2	.2	4.	X	10.1
:	9.	5.	3.	1:0	1.0		5.			.2	.2				0.	X	4:
	+	-	-	-	-	-	-	-	-	-	+	+	-	-	-	+	+-

0

SPEED (KNTS) DIR.

Z 2 2

z

WSW WSW

Q

SSW

.

Q

NAW WAN

Q

VARBL

CALM

0

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1

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76 ALL MEATHER MC MURDO STATIONS ANTARCTICA

00 HOURS (1.5.T.)

AUG

YEARS

SPEED (KNTS) DIR.	1.3	•••	7 . 10	11 . 16	17 . 21	22 - 27	28 . 33	4 . 4	9.1	8 . 85	S AI	*	MEAN WIND SPEED
2		8	ec	2.4								0.4	10.0
2 2		90	8	9.		80						0.4	13.2
2			00									1.6	14.5
SNS .	9 1	1.6	1	1.6	2							8.1	10.4
-			89	11.3		3.2						35.5	14.3
. 2		80	-	1								8.9	11.4
9		80										4.0	9.8
2	8		00	2.4	1.6							9.6	13.7
-	•	90	2.4	8.	7	1.6						8.9	
WS2								9.				1.6	28.5
AS.													
WSW		. 8										0	0.0
*												0	
WWW		8.											
¥	8.	1.6										200	4.3
NNN													
VARBL													
CALM	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	X	X	\bigvee	13.7	
	3.2	12.1	21.0	25.0	17.7	5.6	8.	. 8				100.0	11.4
-	-			I		۱							

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

87601

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

0

0

15.0

5.0

14.7

100.0

33.3

16.7

33.3

16.7

16.7

*

17 - 21

11 . 16

7 . 10

4.6

::

SPEED (KNTS) DIR.

¥ = X

0

z

16.7

16.7

16.7

25 SE 52

0

w

0

SW WSW

0

WWW

*

NN. VARBL CALM

0

O

0

0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

SURFACE WINDS

(FROM HOURLY OBSERVATIONS)

73-74,76

MC MURDO STATIONS ANTARCTICA

YEARS

NOVES (L.S.T.)

AUG

COMBITION

ALL WEATHER

50.0 16.7 16.7 16.7 12 48 - 55 41 . 47 34 . 40 28 - 33 22 - 27

8.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

0

0

87601

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

MEAN WIND SPEED

8.8

16.2

13.7

12.0

4.0

7.0

2.5

122

TOTAL NUMBER OF OBSERVATIONS

12.0

=

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATIONS ANTARCTICA

73-76

YEARS

ALL WEATHER

CONDITION

00 MOURE (1.5.T.) AUG -

239

SURFACE WINDS

*	0	200	2.5	200	100	999	2	9.9	a	1.6			1.6			1.6	14.8	
% AI																	X	1
48 - 55		1		1	1	1	1	1						1		1	X	1
4.0														1	1	1	X	/
34 . 40					T								1	1	1	1	X	7
28 . 33					1.6					8.			1	1	+	1	X	
22.22			8	2.5	4.1					8.			1	+	1	1	X	
17.21	1.6	89		3.3	9.6	2.5		2.5		1		1	1	+	+	+	X	
11 - 16				1.6	10.7	3.3	4.1	5.5	.8		1	1	+	+	+	\dagger		
7 . 10	6.5			1.6	9.9	8	. 8	8.		1	1	1	+	\dagger	×	9		
• •	1.6	8.	1.6	∞.	.8					1	+	a	•	8.	80	:	X	
1.3			. 8						1	1	+	a	•	+	-	+	\bigvee	

DIRNAVOCEANMET SMOS

Ha

87601

0

0

0

SPEED (KNTS) DIR.

0

Z Z Z

0

- 3 8 8

0

SSW WSW WSW

~

0

0

VARBL

CALM

WWW NWW

*

10.0

MEAN WIND SPEED

*

18

17 - 21

11 . 16

7 - 10

1.3

SPEED (KNTS) DIR.

0

10.01

15.5

0.04

10.01

10.0

10.0

10.0

2 2

0

w

Z

Z

10.0

10.0

16.0

10.0

2

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATION, ANTARCTICA

73-74,76

ALL MEATHER

YEARS

60

AUG

CONDITION

0 100.0

20.0

40.0

30.0

10.01

0

10.0

WWW

*

N N VARBL CALM

SSW WSW WSW

•

2 2 ESE

7.0

10.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

000

87601

200

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

HC MUROD STATIONS ANTARCTICA

73-76

ALL WEATHER

12 nous (1.1.7.)

AUG

COMBITION

7.10 11.16 17.21		17 . 21		n · n	28 - 33	24 . 46	41 . 0	4 . 55	36	*	WIND SPEED
	1.6	8			.8					4.0	11.6
			•							. 8	17.0
1.6		1.6								3.2	10.0
1.6	5.4	9:1	6.9							11.3	14.6
0.1	4.8	6.8	12.1	8.4	•					35.5	15.3
	1.6	2.4	1.6	2.4						8.1	15.9
	8.		5.4							6.4	19.0
30			2.4							9.6	18.7
9.			•							1.6	12.5
			. B							1.6	11.0
		30.									15.0
										. 8	2.0
											4.0
	9.									1.6	8.0
		8.								1.6	8.5
V	\bigvee	X	\bigvee	X	X	\bigvee	X	\bigvee	\bigvee	19.5	
0	12.0	16.9	28.8	8.0	2.6	8				1000	11.9

1

DIRNAVOCEANMET SMOS

E

124

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

TEARS 73-74,76 ALL WEATHER HE HURDE STATIONS ANTARCTICA

COMBITION

15

AUG

13.6 14.0 2.0 18.0 2.0 11.2 WIND SPEED 58.3 6.8 8.3 8.3 100.0 8.3 8.3 3 48 . 55 41 . 47 34 . 46 28 . 33 22 . 27 8 . 3 25.0 16.7 17 . 21 25.0 16.7 8.3 11 . 16 25.0 25.0 7 - 10 8.3 8.3 4.6 8.3 3 1.3 WWW SPEED (KNTS) DIR. X 2 2 NAW SSW WSW WSW CALM ž 22 22 SSE * . *

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TUTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

y

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TOTAL NUMBER OF OBSERVATIONS

50

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 70

87601 STATION

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

YEARS 73-70 ALL WEATHER MC MURDO STATIONS ANTARCTICA

COMBITION

18 HOURS (L.S.T.)

AUG

WIND WIND SPEED	9.3	8.0	11.9	12.7	14.5	14.1	17.0	16.3	14.0	5.7		20.0		3.0		10.3			11.6
*	4.8	2.4	5.6	6.8	34.7	6.8	8.4	5.6	0.4	5.4				1.6		2.4		12.9	100.0
\$ Al																		X	
8 . 55																		X	
41.47																		\bigvee	
34 . 40																		\bigvee	
28 . 33					œ.			8										X	1.6
22 - 22			*	9	5.4	1.6	. 8		ω.									X	25
17 . 21			1.6	5.4	11.3	æ	1.6	100				• 8				8.		X	21.0
91 - 11	80	8.	8.	4.2	10.5	4.0	5.4	5.4	1.6									X	25.8
7.10	8			1.6	6.6	5.4			•3	.8						8.		X	12.1
*;	5.4	. 8	8.	. 8	0.4			20.	8.	.8				8 *				X	12.1
		8	1.6	80	80					8.				8.		8.			6.9
SPEED (KNTS) DIR.	z	W.	Z	ENE	-	ESE	35	SSE		SSW	NS.	WSW	*	WWW	WW	MNN	VARBL	CALM	

E

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

000

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

Ē

SURFACE WINDS

Inx		
ALL MEATHER	CLASS	CONDITION

21 HOURS (L.S.T.)

AUG

YEARS

73-74,76

MC MURDO STATIONS ANTARCTICA

87601 STATION

0

0

0

0

0

0

WIND	11.0			0.8	16.4		7.5		14.0										10.8
*	8.3			8.3	41.7		16.7		8.3									10.1	100.0
8 1																		X	
48 . 55																		X	
41.4																		X	
34 . 45																		X	
28 - 33																		X	
22 . 27					8.3													X	2 2
17 - 21					8.3													X	9
11 . 16	8.3				16.7		8.3		8.3									X	41.7
7 - 10				60	8.3													X	16.7
* :							80											X	00
£																		X	
SPEED (KNTS) DIR.	z	N N	Z.	ENE	_	ESE	SE	SSE	•	SSW	NS.	WSW	*	WNW	N.	NNW	VARBL	CALM	

0

10.3

MEAN WIND SPEED

128

22 . 27

17 - 21

11 . 16

7 - 10

4.6

1.3

5.5

1.5

SURFACE WINDS JAN 78

11.4

3.4

15.1 14.1

34.8

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

MC MURDO STATIONS ANTARCTICA

73-70

YEARS

WEATHER

ALL

CONDITION

ALL MOUNTS (1.5.T.) AUG

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SURFACE WINDS

> 3.0 10.5

1.9

1.7

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1.1

2.1

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4.

22 22

ESE

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4.

SSW WSW WSW

w

4

WWW

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16.8 13.0 2,3 4.6

> ç. . 6.

14.3

0.00

TOTAL NUMBER OF OBSERVATIONS

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534

11.7

10000

1.7

4.9

21.0

23.4

16.5

10.1

4.7

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7

9.

VARBL

N N

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CALM

14.4

DIRNAVOCEANMET

74

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

Ē

SURFACE WINDS

73-76

MC MURDO STATIONS ANTARCTICA

YEARS

ALL WEATHER

00

SEP

CONDITION

SPEED (KNTS) DIR.

Z

z

ENE

Z

SE 52

SSE

*

11.5 11.0 9.5 17.5 12.8 8.0 7.0 13.3 10.5 0.9 10.7 MEAN WIND SPEED 27.5 5.0 . 5.0 10.8 1.7 15.8 100.0 128 . 55 # . 47 7 34 - 40 00 8 . 33 28 2.5 4.2 1.1 . 8 10.0 22 - 27 15.0 1.7 1.1 1.7 1.7 1.7 17 - 21 21.7 æ æ 5.0 2.5 : 11 - 16 16.7 8 3.3 32 . 7.4 2.5 * 7 . 10 13,3 2.5 8. 20 00 . : 4.6 6.7 . 2.5 1.3

WNW

*

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0

0

WSW

3×

SSW

VARBL CALM

NN.

DIRNAVOCEANMET SMOS

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1215 62101

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1552

97601

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87501

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0

0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-70 ALL WEATHER CONDITION MC MUROD STATION, ANTARCTICA

03 HOURS (L.S.T.)

SEP

2	7 . 10	4.6 7.10
2.8 1.4	2.8	
		1.6
1.4	1.4	1.4
4.1.4	1.4 1.4	1.4
12.7	12.7	2.8 12.7
6.6	6.6	6.6
8.2 4.	1.4	
1.4		
1.4	-	1.4
4.	1.4	1.4 1.4
1.4	1.4	1.4
4. 7 25. 2		

1

5810

TOTAL NUMBER OF OBSERVATIONS

MEAN WIND SPEED

128

22 - 27

17 - 21

11 - 16

7 - 10

4.6

1.3

SPEED (KNTS) DIR.

*

2.5

2.5

W. Z Z

4.3

14.8 15.4 13.5 17.0

10.8

SURFACE WINDS

=

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATION, ANTARCTICA

73-76

WEATHER

ALL

00 HOURS (L.S.T.)

SEP

COMBITION

48 - 55 41 - 47 0 34 - 40 . 28 . 33 1.7 6.7

æ æ 1.7

00 00

1:1

1.7

-

35

ESE

-

5.0

2.5

2.00

1.7

3.3

5.0

=

36.5

14.6 24.5

0

WWW

*

WSW WSW

SSW

s

VARBL

CALM

MNX

ž

8.0

. 8

100.0 TOTAL NUMBER OF OBSERVATIONS

12.5

11.7

20.8

15.8

2.0

8.3

120

11.6

20.8

28

DIRNAVOCEANMET SMOS

12295 62181

1556

0

87601 STATION

0

20

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

MEAN WIND SPEED

34 . 40

28 . 33

22 . 27

17 - 21

11 . 16

7 . 10

4.6

..

SPEED (KNTS) DIR.

1.4

1.4

7.0

13.4

900

SURFACE WINDS JAN 78

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

2

SURFACE WINDS

73-76

MC MURDO STATIONS ANTARCTICA

ALL WEATHER

00 HOURS (L.S.T.)

SEP

CONDITION

1.4 14.9 27.0 12.2 15.2 2.7 * 12 . 55 4 41 . 47

1.4

2.7

2.7 4.1 1.4

2.4

4.1

1.4

1.4 1.4

2

EN

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ESE SSE

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w

1.4

2.7

Z

z

5.4

1.4

TOTAL NUMBER OF OBSERVATIONS

10.2

100.0

1.4

10.8

16.2

16.2

14.9

8.1

8.1

VARBL

CALM

WSW

()

SK

SSW

8

WNW N N

*

7.1

1.4

24.3

16.0

1.4 4 . . 3

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

MC MURBO STATIONS ANTARCTICA

73-76

12 HOURS (L.S.T.)

SEP

ALL WEATHER

CONDITION

SPEED (KNTS) DIR.	1.3	• •	7 - 10	11 - 16	17 . 21	22 - 27	28 · 33	34 - 40	41.47	48 . 55	% Al	*	MEAN WIND SPEED
z		2.5		30.	3							4.2	9.4
NN.													
w Z	1.7		8	30.	8.							4.2	9.2
ENE		9.	30	5.0	1.7	. 8						9.2	14.5
		3.3	4.2	8.3	5.8	1.07	1.7					25.0	14.8
ESE	1.7	1.1	3.3	1.7	1.0%		8.					10.8	11.4
35	30			2.5		1.7						5.8	15.3
SSE			æ.	1.1	30.		8					2.4	17.0
0	8		1.7		1.7	1.7						5.3	15.1
SSW	8	œ.		æ.								5.5	7.0
SW							. 3					1.7	17.5
WSW													
*													
WNW													
NA													
NNN		2.5		.8	9.							4.2	10.4
VARBL													
CALM	\bigvee	X	X	\bigvee	\bigvee	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	22.5	
	6.7	11.7	11.7	22.5	15.0	5.8	4.2					100.0	10.4

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DIRNAVOCEANMET SMOS

120

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 STATION

0 1 0 0 1 0 0 0 0 0

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3

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

=

SURFACE WINDS

MC MURDO STATION, ANTARCTICA

73-76

VEARS

COMBITION

ALL WEATHER

15

SEP

MEAN WIND SPEED		10.	15.	13.	110	9.	13.	9.	11.	2.					8.
*	2.8	4.2	1.4	1111	15.3	22.2	4.2	5.6	4.2	1.4			9.6	25.2	100.0
3														\bigvee	
8 . 55														\bigvee	
4.0														\bigvee	
3														\bigvee	
28 · 33														X	
n · n														X	
17.21				4.2	2.8				1.4					X	12.5
9 : :	1.4	1.4	1.4	4.2	6.9	6.9	1.4	1.4					2.8	X	27.8
7 - 10		2.8		1.4	2.8	4.2	1.4	2.8	1.4					X	16.7

5.6

ESE 25 25

3

SSW

s

WWW NN X VARBL

*

CALM

WSW

NS.

7.8 8.8

¥ = X

z

1.3

SPEED (KNTS) DIR.

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS JAN 78 5702

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

SURFACE WINDS

(FROM HOURLY OBSERVATIONS)

73-76 ALL WEATHER MC MURDO STATIONS ANTARCTICA

CONDITION

18 HOURS (L.S.T.)

SEP

SPEED (KNTS) DIR.	1.3	• •	7 . 10	1 . 16	17 - 21	22 - 27	28 - 33	34 . 40	41.4	48 . 55	85 YI	*	MEAN WIND SPEED
z		2.5	0	9.								4.2	0.0
NNE			8.	8.								2.5	=
NE	. 6			5.5	30.							4.2	13.0
ENE	1.7	9.		1.1	1.7	1.7						7.5	13.6
		1:1	6.7	7.5	2.5	5.8						24.2	16.4
ESE		2.5	4.2	8.3		1.7						17.5	13.0
35			2.5		.8	1.7						5.8	15.6
SSE	1.7			2.5	2.5							7.5	12.8
s				1.7	36							2.5	16.3
SSW				8.			80.					1.7	23.5
SW													
WSW													
*													
WNW													
¥	1.7			8.								2.5	5.7
NNN	1.7		8.									2.5	4.3
VARBL													
CALM	\bigvee	17.5											
	7.5	7.5	16.7	28.3	10.0	11.7	8.					100.0	10.9

DIRNAVOCEANMET SMOS

20

9224

87601 STATION

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1330

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

818

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76 MC MURDO STATIONS ANTARCTICA

ALL WEATHER

CONDITION

21

SEP

5.5 11.4 16.8 12.4 18.0 25.0 10.7 WIND SPEED 23.50 9.6 5.5 100.0 4.1 20.5 2.7 12 48 . 55 41 . 47 34 - 40 1.4 1.4 2.7 28 . 33 8.2 1.4 6.8 22 - 27 1.4 12.3 1.4 1.4 17 - 21 26.0 2.7 4.1 11 . 16 1.4 4.1 20.5 7 . 10 7. 1.4 6.8 1.4 2.7 9.7 1.4 1.3 WWW VARBL CALM SPEED (KNTS) DIR. WSW NNA Z z ž SSW E. ESE SSE SW * 3 •

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 STATION

WEAN WIND SPEED

10.0

14.4

16.6

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E STE

ALL HOURS (LST.

SEP

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-76

MC MURDO STATIONS ANTARCTICA

ALL WEATHER

YEARS

COMBITION

3.6 5.5 2.5 * 12 48 . 55 . 47 7 34 - 40 . . . 33 28 .8 7.1 4.4 6. -22 . 27 9.0 1.3 0.1 • 17 - 21 3.00 0 0 0 11 . 16

7 . 10

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KNTS)

Z

z

TOTAL NUMBER OF OBSERVATIONS

770

10.5

100.0

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13.1

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DIRNAVOCEANMET

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87601

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WIND SPEED

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17 - 21

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SPEED (KNTS) DIR.

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16.9

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15.3

SURFACE WINDS

210

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

87601

YEARS

00 mounts (1.5.T.)

20

CORDITION

ALL WEATHER

> 3.2 1.6

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ESE 38 88 TOTAL NUMBER OF OBSERVATIONS

154

10.2

100.0

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7.3

10.5

28.5

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8.1

6.5

CALM

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

34

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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87601 states

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(FROM HOURLY OBSERVATIONS)

YEARS 73-76 ALL WEATHER MC MURDO STATION, ANTARCTICA

COMBITION

00 HOURS (1.5.T.)

OCT.

.68		•	7 . 10	11 . 16	17 . 21	22 . 23	28 . 33	3 6	41.47	48 . 55	8 8	*	MEAN WIND SPEED
7.3 4.8 4.8 2.4 8.1 7.3 4.8 4.8 2.4 8.1 1.6 2.4 8.1 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1		2.4		1.6								6.5	7.1
7.3 4.8 4.8 2.4 8.1 7.3 4.8 4.8 2.4 8.1 7.3 4.8 4.8 2.4 8.1 7.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		.8										5.4	6.7
7.3 4.8 4.8 2.4 .8 4.8 4.8 2.4 .8 1.6 3.2 1.6 5.6 4.0 .8 1.6 .8 7.3 7.3 7.3 7.4 7.5 7.5 7.6 7.7 7.6 7.7 7.7 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9												1.6	7.5
7.3 4.8 4.9 2.4 .8 4.8 4.8 2.4 .8 14.5 1.6 .8 1.6 .8 14.5 .6 .6 .8 7.3 1.6 .8 .8 .8 1.6 .8 .8 1.6 .8 .8 1.6 .8 .8 1.6 .8 .8		3.		1.6	5.4	80.						8.1	11.8
4.8 4.8 2.4 .8 1.6 3.2 1.6 4.0 .8 1.6 .8 5.6 .8 1.6 .8 .8		1.6	6	4.8	4 . 3	2.4						21.0	13.5
1.6 3.2 1.6 8.1 8.1 6.8		1.6	4.8	4.8	2.4	80						14.5	12.3
16.5 23.4 13.7 5.6 .8		8.	-	3.2	1.6							8.1	11.3
1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6				1.0	30	1.6						5.6	14.6
1.00.001		œ.		0.4	3.		8.					7.3	15.0
1.6 1.6 18.5 23.4 13.7 5.6 .8					• 8							.8	18.0
8.9 18.5 23.4 13.7 5.6 .8													
8.9 18.5 23.4 13.7 5.6 .8			0.									8.	10.0
16.5 23.4 13.7 5.6 .8												.8	3.0
16.5 23.4 13.7 5.6 .8	_												
16.5 23.4 13.7 5.6 .8	_												
16.5 23.4 13.7 5.6 .8	_		1.6									1.6	8.0
18.5 23.4 13.7 5.0 .8													
18.5 23.4 13.7 5.6 .8		X	\bigvee	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	21.0	
		8.9			13.7	5.6	8.					100.0	9.5

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124

TOTAL NUMBER OF OBSERVATIONS

TOTAL NUMBER OF OBSERVATIONS

1

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

200

SURFACE WINDS

YEARS 73-76 ALL WEATHER COMBITION MC MURDO STATION, ANTARCTICA

00 MOUNT (1.8.T.)

SPEED (KNTS) DIR.	::	;	7 . 10	11 . 16	17 - 21	22 - 27	28 . 33	34 - 40	41 . 47	48 - 55	% AI	*	WIND SPEED
z		6.		6.								1.7	8.0
N.X	6		6.	6.								2.6	8.0
w			6.		5.	6.						2.6	16.0
ENE	6.			2.6	6.	6.	1.1					6.9	18.8
		1.1	4.3	13.8	1.7							21.6	12.4
ESE	1.7	5.6	5.2	4.3		2.6						16.4	11:1
SE	6.	6.		6.								2.6	6.3
SSE		1.7	2.6		6.	6.		0.				6.9	14.3
	6.			1.7	2.6	6.						7.8	-
SSW				6.		6.						1.7	19.5
SW													
WSW	6.											6.	2.0
*													
WWW													
¥	6.						6.					1.7	15.5
MNN		6.	4.3	6.								0.9	
VARBL													
CALM	\bigvee	X	X	\bigvee	20.7								
	6 4	8.6	10.8	7.40	4.0	0.4	2.6	0				100.0	10.0

TOTAL NUMBER OF OBSERVATIONS

12 HOURS (L.S.T.)

UCT.

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SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 STATION

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PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS)

	YEARS			
73-76		ALL WEATHER	CLASS	CONDITION
MC MURDU STATIONS ANTARCTICA	-	AL		
STATIONS	STATION NAME			
MURDO				
S.				

1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.00 11.16 1.00 1.00 1.00 4.00 1.00 4.00 1.00 4.00	2 0 00-00	11.16 17.21 6 1.6	11.16 17.21 22. 0 1.6 .8 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	11.16 17.21 22.27 28.33 0 1.6 6 8 0 2.4 6 8 1.6 6 1 8.9 4.8 1.6 6 6 4.9 5.6 8 6 4.8 6 8	11.16 17.21 22.27 28.33 0 1.6 .8 .8 .8 6 2.4 .8 1.6 .8 1 8.9 4.8 .8 6 4.8 5.6 .8 6 4.8 5.6 .8	11.16 17.21 22.27 28.33 34.40 1.6 .8 .8 .8 5 2.4 .8 1.6 .8 1 8.9 4.8 .8 6 4.8 5.6 .8 6 3.2 .8 .8	11.16 17.21 22.27 28.33 34.40 41.47 6 1.6 6 8 8 8 8 6 2.4 6 8 1.6 6 6 6 4.8 5.6 6 8 6 4.8 5.6 6 8 7 3.2 8 8 8	11.16 17.21 22.27 28.33 34.40 41.47 48.55 0 1.66 .8 .8 .8 1 8.9 4.8 .8 .8 6 4.8 5.6 .8 6 4.8 5.6 .8 6 3.2 .8
	0 1 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7 . 21	17.21 22.	17.21 22.27 28.33 6 • 8 1.66 • 8 9 4•8 1.66 • 8 9 4•8 • 8	17 . 21 22 . 27 28 . 33 6 . 8 . 8 . 8 6 . 8 1 . 6 . 8 7 4 . 8 . 8 8 5 . 6 . 8	17 . 21 22 . 27 28 . 33 34 . 40 6	17 . 21 22 . 27 28 . 33 34 . 40 41 . 47 6 . 8 . 8 . 8 . 8 6 . 6 . 8 . 8 . 8 7 4 . 8 . 8 . 8 8 5 . 6 . 8 . 8 8 5 . 6 . 8 . 8 8 5 . 6 . 8 . 8 . 8 8 5 . 6 . 8 . 8 . 8 . 8 . 8 . 8	17 . 21 22 . 27 28 . 33 34 . 40 41 . 47 48 . 55 6 • 8 • 6 • 8 4 • 8 • 8 • 8 8 5 • 6 • 8 8 • 8 • 8 8 • 8 • 8 8 • 8 • 8 8 • 8 • 8 8 • 8 • 8 8 • 8 • 8	17 . 21 22 . 27 28 . 33 34 . 40 41 . 47 48 . 55 ≥ 56 6 • 8 • 6 • 8 • 6 • 8 9 4 • 8 • 8 • 8 • 2 8 5 • 6 • 8 • 8 • 2 8 • 6 • 8 • 8 • 3 8 • 6 • 8 • 8 • 3 2 • 8 • 8 • 8 • 3 2 • 8 • 8 • 8 • 3

SURFACE WINDS JAN 78

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-76 ALL WEATHER

MC MURDO STATIONS ANTARCTICA

87601

15 HOURS (L.S.T.)

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MEAN WIND SPEED	11.0	13.0	7.5	12.4	13.1	12.6	12.5	12.8	15.6	14.0			3.3	0.6	5.0	0.9		
*	5.2	2.6	3.4	6.5	25.9	12.1	6.9		4.3	6.			2.6	1.7	6.	5.6		14.7
% AI																		X
48 - 55																		X
41.0																		\bigvee
34 - 40																		\bigvee
28 - 33		6.																\bigvee
22 - 27				6.		6.		6.	6.									X
17 - 21	6.			2.0	7.8	2.6	6.	0.	1.1									X
91 . 11	6.		6.	6.	7.8	3.4	3.4	1.1		6.				6.				X
7 . 10	2.6	6.	1.7	4.3	7.8	1.7	5.6	1.7	6.							6.		X
:	6.	6.			5.6	3.4		1.7	6.				1.7		6.	1.7		X
6:-			6.	6.									6.	6.				X
SPEED (KNTS) DIR.	z	N.	¥	ENE		ESE	SE	SSE	0	SSW	SW	WSW	*	WNW	×	NN.	/ARBL	CALM

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100

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DIRNAVOCEANMET SMOS

110

116

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

8.0 12.0

WIND SPEED

10

48 - 55

41 . 47

34 - 40

28 . 33

22 . 27

17 - 21

11 . 16

7 . 10

4.6

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SPEED (KNTS) DIR.

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3.2

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14.5

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12.2 13.4 15.5

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-76

HC MURDO STATION, ANTARCTICA

87601

YEARS

WEATHER CLASS

ALL

HOURS (L.S.T. 28 100

COMBITION

3.5 3.2 5.6 1.6 2.4 100.0 15.3

10.5

5.0

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11.0

14.8

TOTAL NUMBER OF OBSERVATIONS

7.3

12.9

30.0

17.7

6.8

35

124

10.5

MEAN WIND SPEED

7.5

12.0

13.4

16.2

2.0

3.7

8.0

10.5

116

TOTAL NUMBER OF OBSERVATIONS

22.4

12.9

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WWW

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NNN VARBL CALM

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

YEARS

WEATHER

ALL

21

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COMBITION

7 . 10

SPEED (KNTS) DIR.

9.5 0.

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3.4 23.3 2.6 100.0 4.3 0.0. 2.5 12.9 12 48 . 55 41 . 47 \$ 2 00 3 2 5.2 5.0 1.1 22 . 27 2.6 2.0 6. 5.0 12.9 1.7 1.7 17 - 21 26.7 2.6 2.5 6. 11 . 16

1.9

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SMOS DIRNAVOCEANMET

12595 66181

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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2.0

8.8

WIND SPEED

9.9

8.8

SURFACE WINDS

200

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

YEARS

ALL HOURS (LS.T.)

ALL WEATHER

COMBITION

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SPEED (KNTS) DIR.

Z

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Z.

84																	\bigvee	
86 - 85																	\bigvee	
41.4																	\bigvee	
34 - 40								1.									\bigvee	.1
28 - 33		.2		4.	1.			7.	.3						.1		\bigvee	1.4
22 - 27			.2	1.4	0.	1.1		1.0	.3	. 3							\bigvee	5.6
17 - 21	.3		.2	-	4.6	2.3		. 7	1.5	9.		•					X	12.9
91 - 11	1.3	.3		2.2	8.8	5.5	5.4	1.4	2.1	.3	.2	.2	7.	7.	7.	.2	X	25.7
7 - 10	1.8	4.	1:1		4.9	3.5	1.0		1.0	1.		.2		.1	. 2	1.4	X	20.8
9.4	1.4	9.	. 3	.5	1.5		4.			.2		.1		*.	.5	4.	V	10.2

388

15.3

1.9

9.3 8.4

1.3

7.3

1.3

2.1

14.0

11.6

5.6

DIRNAVOCEANMET SMOS

1880

959

TOTAL NUMBER OF OBSERVATIONS

10.1

100.0

5.9

NNW

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CALM

* W WSW

SSW

N.

SSE

s

3

17.4

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

20

DEDCENITACE EDECLIENCY OF WIND

CALLA		NS)
בס בס	AND SPEED	DBSERVATIO
PERCENIAGE PREGOENCY OF WIND	DIRECTION AND SPEED	(FROM HOURLY OBSERVATIONS
רבארת הארת		(FRO

87601 STATION

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SURFACE WINDS

AON	MONTH	00	NOURS (L.S.T.)	
	YEARS			
73-76		ALL MEATHER	CIASS	CONDITION
IN. ANTARCTICA	1	ALL		
STATIONS	STATION NAME			
MC MURDO STATION				
¥				

SPEED (KNTS) DIR.	:	;	7 . 10	51 . 11	17 - 21	22 - 27	28 - 33	34 - 40	41.0	48 - 55	%	*	MEAN WIND SPEED
1	8.	8.	2.5	3.3								7.5	9.6
N N N		80.											0.9
-			4.2		•							5.8	6.7
Z		1:1		6.7	1.7							10.0	13.4
	. 38	10	6.7	15.0	2.4	8.						28.3	13.2
ESE			3.3	1.7	•							5.8	11.6
35			1.7	1:1								5.0	12.8
SSE		20.		1.1								2.5	4.6
s		10		1.7	8.	1.7						5.0	16.0
SSW			8.	8.								1.7	11.0
SW													
WSW													
			. 8									1.7	18.5
WWW		8.										1.7	4.0
ž		1.7										2.5	4.3
NNN	. 8	1.7	1.7	3.3								7.5	9.6
VAPBL													
CALM	\bigvee	X	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	14.2	
	5.0	10.8	7.12	35.8	8.3	2.5	1.7					100.0	10.2

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601

0

73-76

YEARS

ALL MEATHER

03

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WIND	10.0	2.0	4.0	15.0	12.6	11.3	16.3	14.8	13.0			16.0		2.0	5.6	8.4			6.6
*	6.1	8.	1.7	10.9	54.4	16.0	2.5	5.0	1.7			1.7		. 3	4.2	8.4		15.1	100.0
8 Al																		\bigvee	
4 . 33																		X	
0.11																		\bigvee	
34 . 46																		\bigvee	
28 . 33																		\bigvee	
n · n					80	.8	8.					. 8						\bigvee	4.2
17 . 21				5.0	2.3	2.5		100										X	10.9
91 . 11	2.5			4.2	10.1	4.2	20.	3.4	1.7							2.5		X	29.4
7 . 10	4.2			1.7	9.2	4.2	.8					8.			1.1	1.7		X	24.4
:					1.7	2.5									1.7	3.4		X	10.1
:		æ	80			1.1								. 8		8		X	5.9
Series Pie.	z	N N	¥	Z.		182	*	3	8	WSS	SW	MSM	*	WWW	NA.	NNCW	VARBL	CALM	

0

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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

10.7

7.5

MEAN WIND SPEED

18

17 . 21

11 . 16

7 . 10

4.6

..

SPEED (KNTS) DIR.

*

12.0

4.2

13.4

10.0

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20.0

3.3

8

8

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WSW

X.

SSW

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2.5

1:1

8.0

9.0

12.6

6.7

1880

120

4.4

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATIONS ANTARCTICA

87601 STATION

73-76

ALL WEATHER

YEARS

00 MOURS (1.5.T.)

NON

1:1

2.5

2.5 15.0 100.0

TOTAL NUMBER OF OBSERVATIONS

3

3.3

10.8

29.5

24.5

8.3

8.3

7.4

1.1

1.1

NYS.

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VARBL CALM

2.5

WWW

*

DIRNAVOCEANMET SMOS

20

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 0 0 0 0

Z

Z

7 2

TOTAL NUMBER OF OBSERVATIONS

9.5

31.1

26.1

9.5

6.7

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

2

SURFACE WINDS

(FROM HOURLY OBSERVATIONS)

73-76 WEATHER ALL

MC MURDO STATIONS ANTARCTICA

10918

0

0

YEARS

00 HOURS (L.S.T.)

NON BORTH

17 - 21

11 - 16

7 - 10

9.7

1.3

SPEED (KNTS) DIR.

4 . 2

12.9 10.8 15.8 15.0 5.5 9.7 . MEAN WIND SPEED 3.4 2.5 7.6 8 80 3.4 14.3 1.7 100.0 * 8 48 . 55 41 . 47 34 . 40 1.7 28 . 33 1.7 8 00 22 . 27

3.4

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4.2

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5.0 5.9

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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

20

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATION, ANTARCTICA

87601 STATION

0

YEARS

ALL WEATHER

12

NON

COMBITION

1.3

SPEED (KNTS) DIR.

¥ % %

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WIND	15.5	0.9	8.3	14.7	13.0	10.0	10.7	16.2	13.0	18.5	2.0	5.8	4.8	1.8			10.7
*	1:1		5.0	9.2	56.9	12.6	2.0	8.4	3.4	1.1	100	4.2	6.7	4.8	5.0		100.0
%											1					X	
48 - 55																	
41.4																	
34 - 46								0		9.							1.7
28 - 33																	
n · n																	2.5
17 . 21				4.6	5.0	•	1.7	(3)								X	12.6
11 . 16				3.4	13.4	5.0		5.0	1.7					1.7			30.3
7 . 10	100		5.0		0.7	2.5	1.7					1.7	00	4.2		X	23.5
•	1	20.		.:		4.2					1	1.1	4.2	1.7	1	V	0.9

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SURFACE WINDS JAN 78

SURFACE WINDS

11 11

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

ALL MEATHER

YEARS

15

NON

9													MEAN
(KNTS)	:	:	7 . 10	91 . 12	17 . 21	n · n	28 . 33	34 . 45	41 - 47	4 . 55	X X	*	SPEED
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ZZZ													
¥			3.3	8.								4.2	10.2
Z		. 3	3.3	10.0	2.5	8.						17.5	13.8
•	2.5	. 8	3.8	13.3	4.2	00						27.5	12.3
383	8.	1.7		2.5	.8							5.8	10.3
35		8.	1.7		1.7							2.4	12.0
356			8.	1.7	1.7	3.3	30					8.3	19.1
•		80.	œ	∞.		8.						3.3	13.5
WS8	3.		. 3			8.						2.5	12.0
AS.	1.7											2.5	2.3
WSW	1.7											1.7	2.0
*	2.5											2.5	1.7
WNW		2.3										5.5	4.3
MM	8.	1.7	. 8									3.3	4.8
MNN	8.	8.	5.0	1.7								8.3	9.2
VARBL													
CALM	\bigvee	\bigvee	X	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	1.7	
	11.7	12.5	23.3	31.7	11.7	6.7	8.					100.0	11.2

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120

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

87601 STATION

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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(FROM HOURLY OBSERVATIONS)

MC MURDO STATION, ANTARCTICA

87601

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73-76

YEARS

ALL MEATHER

18

>ON MONTH

CONDITION

1.3

SPEED (KNTS) DIR.

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5.3 11.8 16.0 10.8 WIND WIND SPEED 2.5 4.2 4.2 3.4 8 4 5 1.6 100.0 * 128 48 - 55 . 47 7 34 - 40 8 03 . 33 78 2.5 0 5 22 - 27 7.6 1.7 . 30 00 1.7 1.7 16.8 1.7 17 . 21 29.4 8. 3.4 5.9 11.8 2.5 11 . 16 20.2 2.5 3.4 **φ** ω 7 - 10 2 2 8 30 7 0 2.5 19.3 4.6 3.4 5.2

WSW

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VARBL CALM

8888

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3.0 4.3

TOTAL NUMBER OF OBSERVATIONS

119

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SMOS DIRNAVOCEANMET

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SURFACE WINDS

188

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 20

(FROM HOURLY OBSERVATIONS)

73-76 MC MURBO STATION, ANTARCTICA

87601 STATION

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YEARS

ALL MEATHER

CONDITION

21 HOURS (L.S.T.)

NO. MONTH

100.4 21.0 6.3 11.0 40.0 2.5 0.6 WIND SPEED 30.8 1 8 8 7 7 7 8 8 100.0 1.7 6.7 6.7 * 128 48 - 55 . 47 7 907 8 34 . 45 8 8 3 28 8. æ 1.7 22 - 27 11.7 3.3 5.8 . 00 . 17 - 21

13.3

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SPEED (KNTS) DIR.

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TOTAL NUMBER OF OBSERVATIONS

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VARBL CALM

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DIRNAVOCEANMET SMOS

9.9

WIND SPEED

12

48 . 55

41 - 47

34 - 40

28 - 33

22 . 27

17 - 21

11 . 16

7 - 10

4.6

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SPEED (KNTS) DIR.

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11.2 16.2 16.0

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SURFACE WINDS

1883

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDU STATIONS ANTARCTICA

73-76

YEARS

ALL HOURS (L.S.T.)

NO.

CONDITION

ALL WEATHER

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TOTAL NUMBER OF OBSERVATIONS

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N N VARBL CALM

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DIRNAVOCEANMET SMOS

87601 STATION

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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MEAN WIND SPEED

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17 - 21

11 . 16

7 - 10

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

2

SURFACE WINDS

73-76

MC MURDO STATIONS ANTARCTICA

YEARS

MEATHER CLASS

00 HOURS (1.5.7.)

OFC

COMBITION

10.5 28.2 12.9 2.4 8.9 . 3 3.2 100.0 . * 12 . 55 4 . 47 7 34 - 40 00 3 28 . 33 1.6

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WWW N X VARBL CALM

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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

87601 STATION

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

73-76

MC MURDO STATIONS ANTARCTICA

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NOURS (L.S.T.)

DEC

SURFACE WINDS

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CLASS	CONDITION
	8

ALL WEATHER

MEAN WIND SPEED	8.7	9.5	12.0	12.0	11.6	10.5	11.5	12.5						8.0		4.9			9.2
*	19.5	1.6	8.	8.1	30.9	12.2	3.3	3.3										11.4	100.0
% AI																		X	
48 - 55																		\bigvee	
41.4																		\bigvee	
34 · 40																		\bigvee	
28 - 33																		\bigvee	
22 - 22					1.6													\bigvee	1.6
12 . 21	80			1.6	1.6	1.6		•										M	6.5
11.16	4.1	. 8		5.4	13.8	3.3	5.4	1.6								8.		X	30.1
7.10	9.0	8		2.4	11.4	6.4	00							. 8		1.6		X	32.5
• ;	3.3			1.6	5.4	5.4		30								4.1		X	14.6
6:-	1.6															1.6		X	3.3
SPEED (KNTS) DIR.	z	NNE	¥	FRE	2	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	WN	NNN	VARBL	CALM	

87601 STATION

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DIRNAVOCEANMET

SMOS

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

1000

SURFACE WINDS

YEARS 73-76 ALL WEATHER CONDITION MC MURDO STATIONS ANTARCTICA

06 HOURS (L.S.T.)

DEC

MEAN WIND SPEED	4.6	8.0	0.6	11.6	11.8	12.4	10.2	14.0	0.6	12.0			2.0	3.8	8.0	7.3			9.1
*	16.1	80.	1.6	8.9	29.8	10.5	4 . 8	5.4	æ	8			1.6	0.4	1.6	3.2		12.9	100.0
% AI																		X	
48 - 55																		\bigvee	
41.4																		\bigvee	
34 - 40																		\bigvee	
28 - 33																		\bigvee	
22 - 27					. 3													\bigvee	
17 - 21				2.4	0.4	9.	00	æ.										\bigvee	6.8
11 . 16	7.3			3.2	10.5	5.6	1.6	œ.		.8						8.		X	31.5
7 - 10	4.8	8.		8.	10.5	0.4	1.6		3					. 8	1.6	1.6		X	28.2
• •	0.4		8.	2.4	0.4		. 8							. 8				X	12.9
1.3													1.6	2.4		8.		X	4.8
SPEED (KNTS) DIR.	z	N.	N.	ENE	v	ESE	8	SSE	•	SSW	SW	WSW	*	WWW	WW	NNW	VARBL	CALM	

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87601 STATION

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

NO

(FROM HOURLY OBSERVATIONS)

MC MURDO STATIONS ANTARCTICA

87601 STATION

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73-76

ALL WEATHER

HOURS CLS.T.)

DEC

CONDITION

WEAN WIND SPEED	4.6		7.0	11.3	11.0	8.0	13.0	13.6	7.5	2.0	2.5		4.3	4.5	5.1	7.0			9.4
*	13.0		• 9	6.9	30.1	11.4	1.6	7.3	1.6	1.6	1.6		5.4	3.3	2.4	5.7		10.6	10000
3 8																		X	
48 - 55																		X	
41.0																		X	
34 . 46																		X	
28 - 33								00										X	6.9
n · n																		X	
17 . 21	9.			1.6	5.4	00												X	6.5
91 - 11	5.4			00	13.0	1.6	1.6	5.4	00									X	23.6
7 . 10	8.1			5.4	8.8	4.9		1.6					æ.		. 6	1.6		X	30.9
• •	1.6			00	6.4			1.6						5.4	. 8	3.3		X	17.1
:				00	-	3.3				1.6	1.6		1.6	œ.	8			X	10.6
SPEED (KNTS) DIR.	z	ann.	ž	EN.	-	ESE	*	SSE		SSW	SW	WSW	*	WWW	K	NNA	VARBL	CALM	

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123

TOTAL NUMBER OF OBSERVATIONS

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDO STATIONS ANTARCTICA

73-76

12 HOURS (L.S.T.)

DEC

COMPITION

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ALL WEATHER

7.0 12.3 2.0 4.5 12.8 11.4 9.2 MEAN WIND SPEED 32.3 8.9 80.4 5.4 5.6 9.4 9.6 100.0 * 8 48 - 55 . 47 7 34 - 40 28 - 33 • 8 1.6 22 - 27 5.6 00 3.8 17 - 21 5.6 2.4 28.5 8 2.4 2.4 11 - 16 12.1 4.0 32.3 0.4 1.6 . 3 7.6 7.3 7 - 10 1.6 1.6 1.6 1.6 16.1 4.6

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DIRNAVOCEANMET

124

TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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WIND SPEED

34 - 40

28 . 33

22 . 27

17 - 21

11 . 16

7 - 10

1.3

SPEED (KNTS) DIR.

30

5.5

13.0

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1.6 ... 10

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DEC

15 HOURS (LS.T.)

1881

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-76

MC MUROD STATIONS ANTARCTICA

ALL MEATHER

YEARS

15.6 11.5 1.6 5.7 . 3.3 5.7 6.4 • 4.1 12 48 - 55 . 47 =

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DIRNAVOCEANMET

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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122

TOTAL NUMBER OF OBSERVATIONS

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NNN VARBL CALM

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

MC MURDO STATION, ANTARCTICA

87601 STATION

73-76

18 HOURS (1.5.T.)

DEC

ALL WEATHER

COMBITION

SPEED (KNTS) DIR.		4.6	7 - 10	1 · 16	17 . 21	22 - 22	28 - 33	34 - 40	41.47	48 - 55	% AI	×	MEAN WIND SPEED
z		. 3	5.7									6.5	8.4
NNE		3										8.	4.0
NE		8.	2.4	1.6								6.4	0
ENE			2.4	4.9	2.4							9.8	13
F		4.1	11.4	13.8								30.9	10.9
ESE		1.6	4.1	4.9	3							11.4	11.4
36	8.	1.6	8.									3.3	5.5
SSE		8.	1.6	ω.								3.3	10.0
s					1.0	80						2.4	18.7
SSW													3.0
WS													
WSW	1.6											1.6	2.0
W	1.6	8.	8.									3.3	4.3
WWW		2.4										2.4	5.0
WW	1.6	5.4	5.4									6.8	5.3
NNW	8.	2.4	5.4	1.6								7.3	7.6
VARBL													
CALM	\bigvee	\bigvee	\bigvee	X	X	X	\bigvee	\bigvee	\bigvee	X	X	6.4	
	7.3	18.7	34.1	27.6	6.5	.3						100.0	9.2

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123

TOTAL NUMBER OF OBSERVATIONS

SMOS DIRNAVOCEANMET

986

122

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

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SURFACE WINDS

73-76

MC MURDO STATION, ANTARCTICA

87601 street

ALL WEATHER

21 HOURS (L.S.T.)

DEC

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MEAN WIND SPEED	1.1	3.5	8.5	11.5	12.0	11.9	0.6	13.0	20.5			2.0	4.0	4.8	4.8	6.1			8.8
*	7.4	1.6	4.9	10.7	2092	13.1	4.1	1.6	1.6				3.3	4.1	4.1	9.9		9.6	100.0
3 5																		\bigvee	
48 - 55																		\bigvee	
41.4																		\bigvee	
4 .																		\bigvee	
28 . 33																		\bigvee	
22 - 27					*				. 8									X	1.6
17 - 21					3.3	•												X	6.4
5 5	8.			9.0	11.5	9.0	1.6											X	28.7
7 - 10	4.1		3.3	2.5	0.6	4.0	3.	. 3						8.	30.	2.5		X	29.5
*;	8.	20.		1.6			8.						5.5	2.5	7.0	3.3		X	15.6
1:3	1.6	8			1.5		œ.					8.	00	\$	1.0	. 8		X	9.6
SPEED (KNTS) DIR.	z	N X	¥	Z	-	353	35	SSE	s	SSW	NS.	WSW	*	WNW	¥	NNW	VARBL	CALM	

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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SURFACE WINDS JAN 78

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

MC MURDO STATION, ANTARCTICA

87601 STATION

73-76

ALL WEATHER

HOURS (L.S.T.)

DEC

CONDITION

• •	7 . 10	11 . 16	17 . 21	22 - 27	28 - 33	34 . 45	41 - 47	48 - 55	8	*	WIND
	0.9	2.6								11.8	8
	2.	7:								6.	5.4
	6.	.5	1.							1.9	9.2
	5.4	4.5	1.3	.2						6.6	12.1
	10.2	12.7	2.6	9.						29.7	11.5
	6.4	4.0	1.0							11.5	10.8
		1.2	•		•					2.9	10.2
	. 1	1.4	4.		-					3.5	11.7
	.3		**	4.						1.6	15.0
		7.								4.	4.8
											2.1
										4.	2.3
	.3									2.7	3.6
	.5									2.6	5.0
	1.2									3.7	5.3
	5.9	.8								9.9	7.3
/ \	$\langle \rangle$	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	8.7	
	31.3	28 2	6.3	1.3						100.0	0.0

DIRNAVOCEANMET SMOS

985

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS JAN 78

SURFACE WINDS

8888

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

MC MURDO STATIONS ANTARCTICA

87601

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ALL HOURS (LS.T.)

CONDITION

ALL WEATHER

SPEED (KNTS) DIR.	1.3	• •	7 - 10	11 . 16	17 - 21	22 - 27	28 - 33	3 8	41.47	48 - 55	*	*	MEAN WIND SPEED
z	9.	1.2	2.1	1.4	.3	0.	0.					5.6	8.9
NN	.3	0.	.3	.3	7.	•	0.					1.6	8.3
¥	.5	9.	1.0	9.		1.	0.					3.1	9.5
ENE	9.	6.	2.3	3.9	5.4	6.		0.				11.1	13.4
	1.1	2.7	7.1	10.8	5.7	5.4		0.				30.2	13.3
ESE	3.	1.5	3.5	4.5	1.6		7.	0.				12.4	12.2
35	.2	9.	1.4	1:1	•		7.					5.0	12.0
SSE	.2	.5	.8	1.5	•	.5	. 2	0.				4.5	14.2
	2.	4.	.5	1.0	.7	9.	.3	0.		0.		3.8	16.0
SSW	.3	7.		7.	.2	.1		.1				1.2	15.1
SW.	.2	0.	0.	0.	0.		0.	0.	0.			4.	9.1
WSW	2.	-:	0.	0.	0.	0.		0.				7.	9.9
*	9.	.3	1.	0.	0.		0.					1.0	4.3
WWW	5.	.5	-	0.	0.							1.3	5.1
¥		. 8		•	0.	0.	0.					1.9	0.9
MNW	4.	1.1	1.4	9.	0.							3.5	7.6
VARBL													
CALM	X	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	13.0	
	6.8	11.9	21.4	26.8	12.9	5.6	1.3	.3	0.	0.		100.0	10.5

TOTAL NUMBER OF OBSERVATIONS

8647

8

DIRNAVOCEANMET SMOS

0

SURFACE WINDS

0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

MC MURDE STATIONS ANTARCTICA

INSTRUMENT

73-77

ALL HOURS (LS.T.)

CIG 200 TU 1400 FT W/VSBY 1/2 MI UR MURE.

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

DIE.	1:3	:	7 . 10	91 . 12	17.21	n · n	28 · 33	34 . 46	4.0	8 . 8	3 5	*	MEAN WIND SPEED
z		2.	9.	.2	.2	-						1.5	11.4
N N		*.	-:	7.	1.								8.3
¥		.2	.2	*.	.2	.2						1.5	13.1
ENE	7.	.3	1.5	2.8	2.2	1.7	.7					9.7	16.6
	4.	1.1	3.7	6.3	4.6	5.9	1.5					31.7	16.8
ESE	2.	1.2	3.7	5.3	3.6	1.7	7.					16.2	14.3
SE	2.	••	1.9	3.1	1.2	s.	*.					7.9	13.6
SSE		.2	1.1	2.0	3.7	1.6	9.	4.				9.7	18.8
8	4.	4.	.7	3.1	3.6	1.7	1.1	7.				11.1	18.1
SSW	2.		.2			4.	.2					2.0	18.9
SW				-:			-:					4.	16.7
WSW	1.	-:										.2	2.9
*	*		.2	7.									6.3
WWW	2.	7.	.5									6.	5.6
N	.2	.2		7.									9.9
NNW		6.	.2	.1								1.2	4.9
VARBL													
CALM	\bigvee	\bigvee	X	X	X	X	\bigvee	\bigvee	\bigvee	\bigvee	\bigvee	3.8	
	3.2	6.3	15.0	26.9	25.4	14.0	4.8	9.				100.0	15.2

=

TOTAL NUMBER OF OBSERVATIONS

808

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PART D

CEILING VERSUS VISIBILITY

equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to presented as follows:

- 1. Annual all years and all hours combined
- . By month all years and all hours combined
 - 5. By month by standard 3-hour groups

station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by re-Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of ferring to totals in the extreme right band column. Also, visibility may be determined independently by on pages 2 and 3 below. U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque. includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no

N N 0 0	≥ 300 ≥ 200	≥ 500 ≥ 400	≥ 700 ≥ 600	≥ 900 800	≥ 1200 ≥ 1000	≥ 1800 ≥ 1500	NO CEILING	(FEET)	CEILING
A .	8 68 6				0.50000	134		≥ 10	
						E 50)	IV 6	
								≥ 5	
								IV .	
95.4						91.0		l∨ 3	
							$\rangle \rangle$	≥ 2 1/2	
96.9								≥ 2	VIS.
					0			≥ 1 1/2	IBILITY (S
								≥ 1 %	VISIBILITY (STATUTE MILES)
98.3		97.4						IV _	LES)
			neadle of				$\langle \langle -$	≥ %	
			79				<	≥ %	
							()	≥ 1/2	
9 9 9								≥ 5/16	
B			1		No.			≥ %	
100.0	10 X	98.1				92.6	()	IV 0	

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed > 0. For instance, from the table: Ceiling > 1500 feet = 92.6%. Ceiling > 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite > 0. From the table: Visibility > 3 miles = 95.4%. Visibility ≥ 2 miles = 96.9%. Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling \geq 1500 feet with visibility \geq 3 miles = 91.0%.

EXAMPLE # 4

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility Values below minimums stated in the table may be obtained by subtracting the value given from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet < 3 miles, subtract the value read from the table at the intersection, which is 91.0, and/or visibility < 3 miles. In the table from 100%.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of \geq 1500 feet with \geq 3 miles, subtracted from 97.4 read from the table at the intersection of \geq 500 feet with \geq 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling \geq 500 feet with visibility > 1 mile, but < 3 miles; or ceiling > 500 feet, but < 1500 feet with visibility > 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D

SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

- 1. By month and annual all hours and all years combined.
- 2. By month by standard 3-hour groups.

NOTE:

- available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when summary will, of course, be limited to period of available data. # 1:
- Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

TENTHS	0 H M 4 M M 0	νď
		(or obscured)
OKTAS	0 1 0 m 4 5 0 1 0	

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

E

00 NOUNS (1.5.T.) JAN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

		-	0	~	2	-	-	5	•	_	0	5	2	0	10	5	_	0	5	0	2	2	9					K	*	*	4	0	0
	٨١	500			52.3	56.8	58.7	66.	72.9		81.5	82.6		82.6	84.5	84.5	87.	89.0	91.6	91.6	95.	95.	96.8	97.4	97.4	97.4	97.6	98.	99.	166	99.4	00.0	000
	× 1	6		5		8099		6.0		8.1	:		5.0	7			7.1	6	1.6	-			8.96	97.4	4.16	1.4	4.16	1.86	4.6	4.6	4.6	4.6	4.6
	\$/16	.3	0	.3		8.			6.	.1	8 6.	•	9.0	9.	.5	.5 8	.18	0		9.		• 5	00	4.	*	5.	4	-	6 4.	5 4.		*	6 4 .
	VI V	3 50	~	n	3 52	_	58	0	-	1	0	6 82	0	80		80	1 87	68 0				•		16	1 97	1 97	+ 97	198	66 4	66 4	4 99.	-	56 4
	Z Al	50	-	•	52.		58		72.9			82.6	5	?	:	:	-		-	91.6		95.		97.4	97.	97.	97.	.86			6		
	*		•	2	52.3	26.8	58.7		12.9	8		2	85.6		34.5		87.1	6	-	9116		8 . 56					8.96	186	1 . 86	1.84	98.1	1.86	186
	*	1_	0	•	2.3	9.9		5	6.	7.	0	_	9.	0.	5.		7	0	9.	0.	3		7.	20	30	0	3	-:	-4	1.0			8.1
	٨١	2	0	2	80	8 5	7 5		-					8 9	80		1 3	68 0	•	16 9		_		5	0	6	8	1 98	6	6	1 9		1 9
ES)	Ā	50.	51.		52.	56.		.99	72.	78.	81.	82.	82.	82.	84.	84.	87.		91.		. 76			96	96		96		98.	98.			98.
VISIBILITY (STATUTE MILES)	71 7		-	2	52.3				72.9			82.6			3	63.9	86.5	88.4	91.0		34.5	2.46		1006	96.1	1.96	1.96	8.96		8.96	•		96.8
IY (STA)	7,1	6.	0	•		9.0		. 5	•		6.	9.	9.	9.	6.	3.9	6.9	5.	1.0	0	~	. 2	5	6.1		-	-	D . C	8		6.9		8
	ΛI	20	2		3	56	35	9	72	1	81	8	8	8	30	00	æ	8	0	0	6	6	0	5	6	96	6	96			8	6	6
VIS	7		51.0	2.	52.3		58.7		5		6.18	82.6	82.0	2		83.9		88.4	91.0			2.46	95.5	1.96		96.1	96.1	8.96	•		96.8	6.	96.8
	21/2	6.0	1.0		2.3			6.5	•		6.	5.0	2.6		3.9	3	5.8	87.7	6.0	0	3	3.			5.5	2.5	95.5	1.96	6.1	1096	6.1	1.0	6.1
	٨١	3	0	2	3	8	7	1	7		00	9	9		8	8	8	8 /	3	_	9		30	5	3	2	20	6	6 1	6	6	6 1	6
	۸I		-	52.	2.				72.	78.			82.6	32.6	•	83.		87.	.06		•	93.	•				95.	.96	.96	.96	96	.96	96
	4	1.05	50.3	21.6	51.6	56.1	58.1		2	4.11	81.3	-	81.9	81.9	82.6	82.6	84.5	86.5	0.68	0	92.3	C	65.6	93.6	93.6	93.6	93.6	2.46	94.2	2.46	34.3	*	94.2
	s		0.3	1.6	1.6	6.1	7	5.8	2.3		1.3		1.9	1.9	5.6	5.0	4.5	6.5	0.6		1.6	1.0	2.3	5.9	5.9	5.3	5.9	3.6	3.6		3.6	3	3.6
	^I	4	5		3	5	8	0	0 7	^	3			8	00	3			8	2	6		6		6 1		6	6	6	0	3		3 9
	AI	48.	•						71.	76.	80.	80.	80.	80.	81.	81.	82.	84.	86.	96.	89	68	89.	89.		1					90.		90.
	0 1	48.4	49.0	50.3	50.3	54.8	56.8	64.5	71.0	16.1	90.0	80.7	80.7	1.00	81.3	61.3	82.6	84.5	86.5	86.5	0.68	0.68	89.0	1.68	89.7	89.7	89.7	8006	6.06	8.06	90.3	800	80.3
0		-			_	+	10	+	-		-	+	_	-	_	+		+	_	+	_		_	-	_	+	8	+	100	-	8		•
CEILING	(FEET)	O CEILING	≥ 20000	7 1800	14000	7	12000		1 11	1	141	1	200	1	141	1	388		200		150		171		8		171	1	1 71		1 1		1 11

TOTAL NUMBER OF OBSERVATIONS

155

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DIRNAVOCEANMET SMOS

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601 station

03 HOURS (1.5.T.) NA P

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST.	VISIBILITY (STATUTE MILES)	(S)						
(FEET)	21	9	\$ 1	41	8	≥ 2%	1 A	VI %	¥1 VI	- AI	AI N	*	Z.	≥ 5/16	AI 2	٨١
O CEILING			-	48.4	4.84	48.4	48.4	0.65				0.64			49.0	
≥ 20000	-		48.4	48.4	48.4	48.4	48.4		•	49.0	0.64			6	0.64	49.0
	6		1.65	49.7	49.7		49.7	0		0		0		0		50.
2 16000	6	40.7	-	1.65	49.7	1.64	49.7	50.3	50.3	50.3	50.3	50.3	50,3	50.3	50.3	50.
			52.9	52.9	52.9	52.9	52.9	3.		3	53.6	3.		3	53.6	
12000	*	•	55.5	55.5	55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1		56.1	56.
				65.6	•			3.	3	3			63.2	3	3.	63.
000	-	•	7	67.7	67.7	67.7	67.7	4.89	4.89	68.4	4.89	68.4	68.4	80	68.4	68.
1	74.2		5	5	3	5	5			0			0	.0		76.
141	78.1			19.4	19.4	19.4	80.0		80.7				80.7	0	80.7	80.
1	78.7		0	0	0	0	0	1:		•			81,3	-	-	81.
2000	81.3	•	•	83.2		3			*	;	;		;	4.		84.
	81.3			83.2	3.	3.				3	84.5		;			3
904	81.3	•	ë		83.2	83.2		84.5	;				;		;	84.
	61.3			33					84.5	3			84.5			84.
3000	83.2	•	5	85.2	5	10			. 9		;				86.5	86.
	86.5						0.68	89.7	89.7	6	89.7		89.7		89.7	89.7
7000	87.7	•	0		0	0	0.16		:	-	=				=	
1	87.7		0	6.06	6006	0	0.16	91.6		-	-				91.6	
1200	90.3			93.6		3	4		;	;	;				;	
	90.3			93.6		3	3				*		8.46		*	94.
1000	91.6	•	*		8.46	*	1 .96	96.8			97.4	97.4	97.4	97.4	4.16	97.
	91.6					94.8	0		96.8						98.1	98.
8	91.6	•		8. 46	8.46	4				\$			98.1	98.1	98.1	98
	91.6			8.96	8.46	8.96		96.8	96.8	9		4.16	98.1	98.1	98.1	98.
8	91.6	•		8.76	8.46	8.76	.9				4.16		98.7		98.7	98
	91.6		8.46	8.46	*	94.8	8.96	4.16	4.76	98.1	1.86			0	0.001	00
8	91.6		*	94.8	8.76	•	•		97.4		8	4	00	0	0.001	100
88	91.6	92.3	8.96	94.8	•	94.0		4.76	4.76	98.1	98.7	4.66	100.0	100.0	0.001	001
38	11.6		•	94.8		•	•		4.16				•	0	0.001	001
8	9.16	•	96	64.9	30	00	96.8	•	4.6	1.86	200	***	0.001	0000	0.00	000
	0.7	•	;		•	•	•							000	000	000

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

06 HOURS (1.5.7.) NA L

CEILING							VISI	BILITY (ST.	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	2	9	\$0 A1	4	es Al	Y 2%	~ Al	VI %1	VI VI	- AI	% Al	*	% Al	≥ 5/16	NI NI	0 11
NO CEILING	47.1	47.7	4.89.4	4 4	4 4 4	4 4	48.4	4.84	4.84	49.0	0.64	0.64	0.64	0.64	0.64	0.64
18000	4.84	64	49.7	49.7	6		6	0	49.7	0.					0-	50.3
	50.3	51		51.6	50			5 0		- 0	2	3			52.9	52.9
12000	53.6	54.		54.8	55.5	95.5	55.5	55.5	55.5	9	56.1		56.1	56.1		56.1
0001	58.1	58.		59.4	60.0	0.00	000	0000	60.0	1.09		600		Ca	209	600.7
	72.9	13.6		74.2	: ;		14.0		74.8	15.5			15.5	15.5	3	75.5
141	75.5	76.	76.8	76.8	77.4	17.4	77.4	7		78.1	00	78.1		8		78.1
1	17.4	18		78.7	6	0	6		6		80.0	80.0		0		80.0
2 2000	78.1	18	•	19.4	0	0	0	0	0	0	0	80.7	0	0		80.7
× 4500	76.1		•	70.6	0	80.0	0.08	80.0	80.0	0	80.7	80.7		0	50.7	80.7
	1001	0 0	•	5 0	00	0	0	5	0	0	0 -	8100	3	81.0	80.1	800
300	81.9	85	83.2	3 .	83.9	83.9	83.9	83.9	83.9		34.5	84.5	: ;	84.5	84.0	84.5
1	34.5	1			86.5	86.5		0		-			-		87.1	87.1
2000	87.1	87	•	89.7	0		-	-	:	÷	-	91.6	:	91.6	91.6	91.6
VI 081	87.1	87.	1.68	6	6.06	•		91.0		-	9.16		:	•	91.6	91.6
	900	600	•		-		•	20			7		•	2	73.6	93.0
VI VI 8 8	88	89.0	91.6	91.6	6.76	92.9	94.2	95.5	95.5	96.1	96.1	96.1	96	0	• •	
	88.4	68			~	92.9		5		9	0	0			1096	1.96
8	89.0	89.	•	92.3			-		9	8.96		8.96		90.8	8.96	8.96
700	0.69	68		5 .	34.5	2.46	95.5	96.8	9			97.4	4.16	4.16	4.16	
	99.0	90		93.6	•		96.1	:	4.16		1.86			98.7	18.1	
200	0.68	90.	•		•	50	1.96	7.16	4.70	98.1	98.1	7.86	•		4.66	4.66
	0.40	.0.	•	73.0			10.	:	4.		1006				40.6	
8 8 N N	89.0	90.0	93.0	93.0	94.0	94.0	1.96	4.76	4.7.4	98.1	1.86	98.7	44	4.66	4.66	4.66
1	0.60	.06		93.6		8.76	1.96	-	4.16		1.86	7.86	0000	100001	00.00	0000
0	89.0	90.	93.6	93.6	8.46	•	96.1	4.76	97.4	98.1			00.00		00	00.00

TOTAL NUMBER OF OBSERVATIONS

155

87601 STATION

0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MURDO STATION, ANTARCTICA

87601 STATION

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

T S 1) SHOOM ZAC 60

34.75

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TOTAL NUMBER OF OBSERVATIONS

155

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DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 NA P

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155

TOTAL NUMBER OF OBSERVATIONS

3 2

87601 STATION

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CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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15

CRITING 210 24 25 24 23 22 215 21 216 2		0	51.6				57.4	6119	69.7	77.4	81.3					84.5				91.6		2.46	1.96	1.96	96.8	98.7	4.66	4.66	99.4	4.66	4.66	0000	000
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N		\$ 41	51.0	52.2	52.9	\$5.5	56.8	61.3	69.0	76.1	80.0	80.7	81.3	81.3	83.2	83.2	84.5	85.2	89.0	39.0	90.3	91.0	92.9	95.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		15.0	÷.		: 2	3	•	-	6	•	•	0	:	-	3	3.	;	5				0	2.	5.	2	3	2	3	5	2	2	2.	2
THING					2 2	5	•	-	8	3	6	0	0	0	2					8		6	0	0	0	0	.0	0	0	.0	0	0	0
	CEILING	(FEET)	NO CEILING	2 4000					1			1		1		1		1															

TOTAL NUMBER OF OBSERVATIONS

155

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATION, ANTARCTICA

1CA 73-77

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YEARS

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NAC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

89.0 87.1 80.0 83.2 92.9 93.6 8.46 74.8 81.9 81.9 54.8 95.5 97.4 4.66 0.0015.66 99.4100.0 54.8 80.7 96.1 98.1 96.1 89.0 80.0 81.9 93.6 1.96 47.1 0.65 81.9 83.2 95.5 54.8 62.6 4.89 74.8 83.9 83.9 6.26 94.8 1.96 97.4 54.8 98.1 80.7 80.7 49.7 89.0 87.1 9.29 83.2 0.65 14.8 74.8 74.8 80.0 81.9 93.6 54.8 4.66 4.66 4.66 54.8 81.9 6.26 95.5 1.96 97.4 47.1 68.4 8.46 1.96 98.1 98.7 49.7 2 5/16 89.0 93.6 49.0 97.4 83.2 83.9 4.66 4.66 81.9 54.8 62.6 62.6 62.6 8.46 68.4 68.4 68.4 80.0 80.0 6.26 96.1 49.7 81.9 81.9 86.5 87.1 87.1 96.1 96.1 98.7 80.7 95.5 95.5 ٨١ 4.16 4.66 6.26 93.6 47.1 88.4 89.0 2001 81.3 81.9 54.8 54.6 54.8 54.8 54.8 54.8 63.9 98.7 82.0 83.2 8.76 98.1 49.4 95.5 96.1 * 0.65 4.64 92.3 92.9 47.1 74.2 79.4 80.0 91.6 91.6 92.3 8.46 95.5 1.65 8.96 95.5 97.4 93.6 94.2 1.86 81.3 82.6 82.6 82.6 83.2 98.1 98.1 % AI 2.46 0.65 0.65 62.6 62.6 85.8 58.4 68.4 74.2 95.5 96.1 8.76 49.7 78.7 80.7 81.9 94.2 94.2 87.7 87.7 80.7 96.1 96.1 _ ^I VISIBILITY (STATUTE MILES) 4.61 74.2 93.6 2.46 8.46 8.46 85.8 94.2 95.5 95.5 54.8 81.9 92.3 2.46 8.46 95.5 49.7 95.5 54.8 78.7 78.7 80.7 80.7 17 54.8 54.8 79.4 62.6 62.6 74.2 91.6 93.6 94.8 65.5 80.7 82.8 0.64 0.64 68.4 68.4 6.36 2.46 2.46 94.8 95.5 81.9 8.46 87.7 87.7 2.46 80.7 80.7 83.6 54.8 19.4 93.0 34.5 34.5 8.46 6.56 81.9 32.6 90.3 91.6 91.6 91.6 2.56 94.8 94.8 8.56 95.5 6.76 95.5 95.5 74.2 95.5 95.5 47.1 54.8 78.7 95.5 95.5 80.7 49.7 7 0.64 4.89 95.5 9.79 82.6 93.6 93.6 94.2 95.5 54.8 4.61 85.8 98.8 34.2 8.46 49.7 14.2 80.7 61.9 92.3 8.46 93.6 94.2 78.7 87.7 80.7 2 2% 54.8 81.9 6.26 34.5 8.46 82.6 8.46 19.4 85.8 34.5 9.79 9.16 0.64 4.89 78.7 87.7 92.3 92.3 93.0 92.9 92.9 94.2 93.6 93.6 94.8 74.2 80.0 80.0 80.7 93.6 93.6 94.8 80.7 80.0 87.1 6.06 93.6 93.6 48.4 48.4 0.64 73.6 73.6 78.7 65.6 61.9 65.3 93.6 67.7 81.9 81.9 91.6 92.3 93.6 46.5 54.2 54.2 81.3 92.9 92.9 78.1 78.1 78.1 85.2 6006 93.6 0.65 81.3 91.6 65.3 54.5 61.9 73.7 85.2 46.5 24.5 90.0 92.3 90.3 87.1 1 91.6 61.9 92.3 93.6 67.7 73.6 81.9 8006 6.26 93.6 78.7 80.0 93.6 54.2 85.2 6.06 92.3 92.9 93.6 46.5 48.4 0.64 54.5 80.08 81.3 87.1 65.6 93.6 86.5 91.6 48.4 91.6 92.3 6.76 6.76 24.5 80.7 13.6 6.26 0.64 90.0 61.3 6.76 40.5 78.1 78.7 84.5 91.0 91.6 92.3 92.9 92.9 92.9 54.5 6.10 67.7 89.7 46.5 89.7 NO CEILING VI VI 0008 0008 0008 1 1 4 000 IV IV 1500 900 (FEET) × 20000 9000 2000 2000 4000 3000 2500 88 88 88 88 80 AI AI AI AI ALAI ALAI AI AI ALAI AI AI

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

87601

MC MURDO STATION, ANTARCTICA

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21 HOURS (1.5.T.) NAD

200

							VISI	BILITY (ST.	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	2	NI NI	N N	4	e vi	1 2%	Z 2	71	VI Z	- AI	× Al	₽ Al	Z.	> 5/16	NI N	AI
CEILING	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	20 4
3	•	•	3	5076	•	. ,	?	2	. 7	2	•	2	. ,		•	0
18000	•	•		25.3	•	•	5	7	•	2	•	2				n
16000	•		54.8	54.8	54.8	54.8	54.8	;	•	*		54.8	54.8			2
14000				57.4	57.4	57.4	-	-								5
12000	•		58.7	58.7		58.7	58.7	8			58.7		58.7			-
10000			61.9	6119	-	-	-	-		-		-	-	-	-	9
0006	•		0.69	0.69	69.0	0.69	0.69	0.69	0.69	0.69	6	0.69	69.0	0.69	0.69	0
8000			76.1	76.1	9	0	0	0		9		9	9	9	.0	-
2000			80.7	80.7	80.7	80.7		80.7		0		80.7	80.7	80.7	80.7	80
4000			0		0	C	0	0	0	0	0	0	0	0	0	
2000			2.	82.6	3	N	82.6	82.6			2		82.6	82.6	2	82
4500			2.	82.6	2		2	2.	3	3	3	3	3	3	3	
4000			-		83.2	3	83.2	83.2				83.9	83.9	83.9	3	83
3500			3		3.		3	3	*	4	*	3	*	*	4	
3000			88.4	88.4	88.4	8	88.4	88.4	89.0	89.0		89.0	89.0	89.0	89.0	8
2500			89.7	89.7		6	6			ċ	0	0	0	0	0	0
2000			91.0	91.0	91.0	-	-	91.0	-			91.6	:		-	0
1800			-	91.0			-	-		-		-		-	-	0
1500	•		65.6	65.6	93.6	3			;	*	*	;	;	*	;	0
1200			3.				*		;	4	*	;		*	*	0
1000			93.6	93.6	;		34.5	2.46		8 . 76	95.5	95.5	1.96	96.1		0
006			3.	93.6	94.2		*	;		*	3.	95.5	1006	1.96	1.96	96
8			34.5	84.5	;		*	94.6		3		96.1	96.8	96.8	8.96	6
700				94.2			3	8.46				8.96	4.16	97.4	97.4	0
9			;	8.46	95.5		95.5	95.5	96.1	96.1		4.16	98.1	98.1	3	0
200			8.46	8.46						•	4.16	4.10	98.1	98.1	1.86	0
400			;	94.3	95.5	95.5	3	95.5	96.1			97.4	98.1	98.7	98.7	96
300	~		8.46	8.46	95.5	95.5		96.1	96.8	96.8	1.86	1.86	98.7	4.66	4.66	66
300	•		94.8	94.8	95.5	95.5	96.1	96.1	96.8		2.86	98.7	4.66	100001	0.00	ò
8	92.3	34.5	;	8.46	45.5	95.5	1.96	96.1		97.4	1.86	48.7	7.66	100.001	0000	0
•	5.		94.8	94.8	62.5	95.5	1.96	96.1	•	97.4	1.86	48.7	4.66	•	;	8

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

HC MURDU STATION, ANTARCTICA

ALL HOURS (1 5 T AAN

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	*		•	8	0	3								~	~	-				8	3	-	~	2	0	9	~	4	0	-	0	0
٨١	64		20.	51.	54.	56.	-	00	2	0	0	-	-	82.	83	85.	87.	91.	91.	93.	94.	96	96	97.	96		99.	66	66	66	ė	00
N N	•			=	*	;	:																			8	6		6	6		99.66
≥ 5/16	6	6	•	:	. 5		-	8	5	6	0	-	-	2.	3															•		6
λl Σ	2	3	0	-	*	0	-	3	2	0	0	-	-	N	3	5		-	:	3			0	1.			6					
* Al		6	0	-		•	-																							•		•
% Al	49.	49.	20.	51.	54.	56.	910	68.	15.	79.	80.	81.	81.	82.	83	85.	87.	91.	91.	93.	. 46	95.	95	96	97.	97.	6	0	-86	98.	8	8
- 1	64	49.	200	51.	54.	56	OIO	68	75	79.	80.	81.	81.	82.	82.	8 55	87.	91.	91.	93.	96	95.	96	96	96	97	97	97	60	-	61	97.
V1 V1																																
V 1%	6	6	0	51.	54.	56.	91.	68	75.	79.	80.	81.	81.	82.	82.	85.	86.	90	06	93.	63	95.	95.	95.	96.	96	96	96	96	96	96	96
71	.6	.6	0	-	4	.9				:	:	•					:	:	1:		-	:	:		:		1		3	•	:	:
≥ 2%			0	-	*	9	-	00	5	6	0	-	-	~	2		5		0	~				*	2							95.7
N AI	6	6	0	-	3	•																								:		95.2
AI AI	48.	64	50.	51.	54.	55			5	78.	19.	80.	80.	81.	81.	84.	86.	89.	68	91.	91.	92.	92.	93.	93.	93.	76	94.	94.	. 76	. 76	
49 Al	48.8						6009				79.	80.	80.	8	81.	84.	86.	89	89.	91.	91.	92.	92.	93	93.	93	93.			•		•
o Al	48	43	50.	50.	53.	55	60.	67.	74.	78	79.	80.	90	80.	81.	83	85.	88	88	89	90.	90	91.	91.	91.	6	92.	92.	92.	92	92.	6
5 1		48.4	8.64	50.7	53.6	55.2	00	67.4	14.2	77.6	78.6	79.6	19.6	80.2	80.6	82.9	84.7	87.6	67.6	89.2	89.6											
(FEET)	O CEILING	20000 ×									1		1												1		1				1	30
	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	FEET 2 10 26 25 24 23 22% 22 2 1% 2 1% 2 1 2% 2 % 2 % 2 % 2 %	210 26 25 24 23 22% 22 21% 21% 21 2% 2% 2% 2% 2% 2% 2% 2% 2% 20 20 20 20 20 20 20 20 20 20 20 20 20	THE TO SE	FEET) 2 10 2 6 2 5 2 4 2 3 2 2 6 2 2 2 1% 2 1% 2 1% 2 5 2 8 2 6 2 6 2 6 2 6 2 6 2 6 2 6 2 6 2 6	CELLING 48.2 48.5 48.8 48.8 49.1 49.1 49.1 49.2 49.3 49.3 49.4 49.4 49.4 49.4 49.4 49.9 50.0 50.0 50.7 50.9 50.7 50.9 51.2 51.2 51.5 51.5 51.5 51.6 51.7 51.7 51.7 51.7 51.7 51.7 51.7 51.7	CEILING 48.2 48.5 48.8 48.8 49.1 49.1 49.2 49.3 49.3 49.4 49.4 49.4 49.4 49.4 49.4	TEETING 48.2 48.5 48.8 48.8 49.1 49.1 49.1 49.2 49.3 49.4 49.4 49.4 49.4 49.4 49.4 49.4	TEELING 48.2 48.5 48.8 48.8 49.1 49.1 49.1 49.2 49.3 49.4 49.4 49.4 49.4 49.4 49.4 49.4	TEELING 48.2 48.5 48.8 48.8 49.1 49.1 49.1 49.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3	TEUNG 48.2 48.5 48.8 48.8 49.1 49.1 49.1 49.2 49.3 49.3 49.3 49.4 49.4 49.4 49.4 49.4	TEUNG 48.2 48.8 48.8 48.8 49.1 49.1 49.2 49.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3	FEET 2 10 2 6 2 5 2 4 2 3 22% 2 2 1% 2 1% 2 1% 2 1 2 2 2 2 2 2 2	CELLING 48.2 48.5 48.8 48.8 49.1 49.1 49.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3	FEILING 48.2 48.5 48.8 48.8 49.1 49.1 49.2 49.2 49.3 49.3 49.3 49.3 49.3 49.3 49.9 49.4 49.4	CELLING 48.5 48.8 48.5 49.0 49.3 49.1 49.1 49.2 49.3 49.4 49.4 49.4 49.4 49.4 49.4 49.8 49.8	CELLING 48.2 48.5 48.8 48.8 49.1 49.1 49.1 49.2 49.3 49.3 49.4 49.4 49.4 49.4 49.4 49.4	TELLING 48.2 48.5 48.8 48.8 49.1 49.1 49.4 49.4 49.4 49.4 49.9 4 49.4 49.	FEIT 2 10 26 25 24 27 22% 22 2 1% 2 1% 2 1% 2 1 2% 2 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 2 1% 3 49 3 49 3 49 3 49 3 49 3 49 3 49 3 4	### 2 10 26 25 24 23 22% 2 2 12 2 14 2 14 2 14 2 14 2 14 2 1	### 2 10 26 25 24 23 22% 22 21% 21% 21% 21 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2%	FEILING 48.2 48.5 48.8 48.8 49.1 49.1 49.2 49.2 49.4 49.4 49.4 49.4 49.4 49.4	FEIN 2 10 2 6 2 5 2 4 2 3 2 14 2 2 2 114 2 114 2 1 2 1 2 2 2 2 2	FEIL 2 10 2 6 23 24 23 22% 22 21% 21% 21 % 21 2 2 2 2 2 3 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49	CEULING 48.2 48.5 48.8 48.8 48.8 49.1 49.1 49.2 49.2 49.4 49.4 49.4 49.4 49.4 49.3 49.3 49.3	CELLING 48.2 48.5 48.8 48.8 48.8 49.1 49.1 49.1 49.2 49.2 49.4 49.4 49.4 49.4 49.4 49.4	CEULING 48.2 48.5 48.6 49.6 49.1 49.1 49.1 49.2 49.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.8 48.6 49.0 49.6 49.1 49.1 49.1 49.2 49.2 49.4 49.4 49.4 49.4 49.4 49.4	CELLING 48.2 48.5 48.6 48.8 48.8 49.1 49.1 49.1 49.2 49.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.8 48.8 48.8 48.8 49.8 49.1 49.1 49.1 49.2 49.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3	CELLING 48.2 48.5 48.8 48.6 49.1 49.1 49.2 49.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3	TEULING 48.2 48.5 48.8 48.5 49.1 49.1 49.1 49.2 49.4 49.4 49.4 49.4 49.4 49.4 49.4	CEULING 48.2 48.5 48.8 48.8 48.8 49.1 49.1 49.2 47.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3	CRUING 48.2 48.2 48.5 48.6 48.8 49.1 49.1 49.2 47.2 47.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3

TOTAL NUMBER OF OBSERVATIONS

...

SWOS DIRNAVOCEANMET

87601 STATION

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTAPCTICA

87601

APCTICA 73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PEB HONTH OO HOURS (1.8.7.)

22

CEILING							VISI	BILITY (ST.	VISIBILITY (STATUTE MILES)	(5)						
(FEET)	0 41	9	\$	7	e Al	1 2%	7	71 %	VI 71	-	% Al	*	Z AI	2 5/16	AI	٨١
NO CEILING	9		9	. 9	0	9	0		9					9		26.8
≥ 20000			28.6		28.6	8	28.6	28.6	28.6		28.6	28.6		28.6	28.6	28.6
	3		3		3	3		3.	3	3.	3			•	3	33.0
2 16000	34.8	34.8	*	34.8	34.8	34.8	34.8	34.8	34.8	•		34.8	34.8	34.8		34.8
			34.8	4		*			5	4.		•				34.8
× 12000		-	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7		35.7	3	35.7
1 -			38.4	38.4		80				8	8	38.4	8			38.4
000			41.1	-	41.1	41.1	-	41.1	41.1	41.1	:	41.1	41.1	41.1	41.1	41.1
			56.3		9				•		0			9		
7000	5		65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2		65.2
1			61.9		-	-	-	-	-		-				:	
2000		-	70.5	0	•		70.5	70.5	70.5		0				0	0
1			70.5	10.5	70.5	10.5		70.5	10.5	70.5		10.5	70.5	70.5	70.5	70.5
0004			78.6	00		00		78.6	8		8		78.6			78.6
1		-	79.5	6			6	79.5	6	•	6	6	19.5	79.5		79.5
3000			85.7	3	85.7	5	85.7	85.7	5	5	2		85.7		3	
			87.5				-	87.5	•	87.5			87.5			87.5
7 2000			95.0	3	95.0	2.		5	2.		3	3	93.8	93.8		93.8
1			92.0	2.	95.0	95.0	6.76			93.8	3	3	93.8			93.8
2 1500			65.6	3	2.	•	3	3			*			;		94.6
			95.9	2.	2.	95.9			93.8	94.6	•	94.6	94.6	. 4		94.6
100	93.8		93.8		94.0		95.5			-	97.3	1.	97.3	97.3	97.3	97.3
			94.6	94.6		5		61.3	61.3	98.2	1.66	99.1	1.66	99.1	99.1	99.1
8		-		4	65.5	2		97.3			100.0	100.0	100.00	100.0	100.0	1000
			9.46	94.6	2	6.56	9	6.16	97.3	98.2		100.0		100.0	100.0	1000
8		-		*	95.5			97.3	-		100.0	100.0			100.0	
			9.46	94.6	5	95.5	9	6.16	97.3		100.0		0.001	100.0		100.0
8		-	94.0		65.5	95.5		97.3	1.		•		100.0	100.0	100.0	
			94.0	•	5	95.5	90.06	97.3		98.2	0	0	0.001	0		0.001
1 200	94.6	94.6	0.46	*	62.5	95.5		97.3			0	•-	100.0	0	100.0	100.0
8		-	9.46	9.46	95.5	45.5	4.96	97.3	97.3	98.2	0.001	10000	0000	10001	•	
0 1	*	-	9.46	94.6	62.5	6.56	96.4	97.3	97.3		•	1000	•	100.0	100.0	0001

112

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

73-76

-10

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

FEB 03

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601 STATION

73-76

90 FEB

90		7.	8.3	8.3 28.3	•	1.9 31.9	33.0	0 4	6.9	0	2	0	0.8 70.8		20	00	8	00	4.	200		3.8 93.8	• 5	7.4 97.4		00	10	100	.0010	0.00100
ľ		≥ 5/16 ≥	28.3 2	28.3	30.	31.	33.0 3	2 4 4 4 4 4	6.99	0.29	65.5	0.69	70.8 70	71.7	78.8	80.5	85.8	85.8	4.60	00000	1.2	93.8	96.5	97.4 97	97.4	00	100.001	100.001	1000	0010.001
	-	*	3.3 26.3		.1 30.	.9 31.	34.3 34.0	200	6.9 46.9	.0 62.	.5 65.	.69 0.	8	11.	00	.5 80.	00	8 85	•	1.2 07.4	2	. 3	. 5 96.	. 4 9 7	4 76 4 7	900	5	.2100.	. 2100.	8.2100.0
w		۸۱ ۲۰ ۸۱	€ € .	8.3 2	0.1	6	0 1	2	4	2.0 6	9	0.6	70.8 70		_	20	D .	200	4	0 0 0	1.29	93.8 93	6.9	97.4 97	07.40		12	8.2	7	98.2 98
URRENC NS)	MILES)	٦ ا	3 2	3 28.	1 30.		93.0	200	6.44	62.	0	0.69 0		1	8	∞	8	00	00	4.00	-		7 96.5	4.76 9	0 77.0	9	5 98.2	5	2	5 98.2
NCY OF OCCUR	VISIBILITY (STATUTE MILES)	21 41 2	8.3	8.3 28.	-1	1.9 31.	0 0	000	9 6 9	2.0	5.5 65.	69.0 69.	70.8 70.	11.	20	0.5 8	5.8 8	8 . 8	3.	400	2	2.9 92.	6 1.4	2.6	U R			5	0	96.5 96.
	VISIBIL	AI	28.3 2	28.3 2	30.1 3	31.9 3	33.0		0 47	2	5	0	70.8 7	11.1	78.8	80.5	85.0	5.	8.5		200	92.0	3.6	1.4	0 1. 10	*	200	5.0	2.0	95.6
GE FREQUE M HOURLY		2 2%	3 28.3	3 28.3	1 30.1	9 31.9	93.0	200	6 44 6	62	-	69 0	8 70.8	-	8	20		0 85.	0	2 08.0	1	0	2.	93.	20 00 00 00 00 00 00 00 00 00 00 00 00 0	600	7 94.7	6	74.	7 94.7
RCENTAGE (FROM		1 4	8.3 2	•	0	-	0 0	6.0	6.9	2.0 6		69 0.6	70.8 70.		00	8			5	88.0	7 100	92.0 92.	6	3.8	2 × ×	2000	-	6		94.7 94.
PE			28.3 2	3	7	6	0 0	0	0	0	S	0	80		8	2	0	0	2	200	2	0	6	00	0 20 00		04.7	-	-	94.19
			3 28.	3 28.	30.	9 31.	33.	3 30.	0 0	0 62.	5 65.	.69 0	70.	71.	78.	5 80.	85.	85.	88	000	900	3 90.	90.	91.	200	7 2		2 91.	91.	2 91.2
	S E		28	20000 28.	3	16000 31.	•	7	0000	29		60	0	1		CB	3000 85		20	1800	0 00	06 0001	90	800 91	-	70	-	-	91	91,
	CEITING		NO CE	71		2	1		2 5		IAI	1	IAI	1	A A		A	2.45	٨١	A1 /		11 11		AI	A1 /		AI AI	1	AI	AI AI

0

0

0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

60 FEB

	٥			6.62		6.63	29.9	37.	15.9	1865	6.49	8.8	70.1	11.4	17.9	30.5	37.0	90.0	33.5	33.5	34.8	8.46	37.4	37.4	37.4	37.4	18.7	0000	0000	0000	000	0.00
	× 11	1.3	1.3	6.6	6.6	6.6	29.9	1.1	5.5	2.5		8.6	1.0	*	1.9	0.5	7.0	6.	3.5	• 2	4.8	80	4.	4.1	4	*	4	7.	98.710	11.86	98.716	98.71(
	≥ 5/16	6.7	1.3	6.6	6.6	6.6	59.6	1.1	5.9	1.6	6.4	8.8	0.1	1.4	7.9	0.5	1.0	6.0	3.5	3.5	4.8	*	-	7.4	7.4		•		68.7	98.7	98.7	98.7
	2 11	-		6			56.62		45.9		*		0	-	7.	0	87.0	0	3		*		-		-	-	-	48.7	1.86	1.86	186	98.7
	# Al	27.3		.6	6	6	0		45.9	6	*		0	-	-	0	87.0	0		3		*			•	1.96	0	4016	97.4	4.16	4.16	97.4
	% Al						59.9														•		1.96							91.4		4.76
.ES)	71	27.3	1.	6	6	6	6		2			8	0	-	-	0		0			;		•		9		•	97.4	:	97.4	•	97.4
VISIBILITY (STATUTE MILES)	71 71			6	6	6	59.6	-		29.	64.	68.	70.	11:	77.	80.	87.	.06	92.	.76	93.	93.	94.			94.8	*	96.1		96.1	96.1	96.1
SIBILITY (SI	۲۱ ×	2%	21.	29.	29.	29.	29.9	31.		59.	64.	68.	70.	71.	77.	80.		.06	92.	92.	93.	63.	94.	94.		94.8		96.1		96.1	96.1	96.1
N N	7	-	-	6	5	6	59.9	-	2		*		0	-	-	0	:	0	2	2	10	3	;	. 56	. 46		94.8		96.1	96.1		1.96
	2 2%	27.	27.	2	29.	59.	29.	37.		58.	9	67.	68.			6	5	0	0		5	2	93.5		93.5	500	93.5	94.8	94.8	94.8	94.8	94.8
	۸I	~	27.	29.	29.	29.	29.		5						76.	79.	68	89.	.06		3					93.	93.5	. 56	. 46	94.8	94.8	8.46
	4	2	27.	29.	29.	29.	59.	37.	4	58	63.	6.7	68.	10.	76.	79.	90	89.	-06	06	92.	92.		0	93.	93.	93.	. 76	0	. 76	0	94.8
	AI S	27.	27.	29.	29.	29.		37.	45.	58.	63	67.	68.	70.	76.	19.	85.	89.	.06	.06	92.	92.	63.	93.	93.	93.	66	. 56	94.	76	. 46	96
	٨١	27.	27.	29.	29.	29.	59.	37.	42.	58.	63.	67.	68.	10.	76.	19.	85.	89.	90.	90.	92.	92.	93.	93.	93.	93.	93	94.	94.	. 76	94.	76
	71	27.	27.																				•									94.8
CEILING	(FEET)	NO CEILING	> 20000		≥ 16000		¥ 12000	1	000	1	7000		2000	1	141	1	300	1	7000	1800	1500		1 11		8		8		4		30	80

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TOTAL NUMBER OF OBSERVATIONS

1880

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601 STATION

73-75

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 HOURS (1 5 T.) F E B

....

		K .	-	-	1	_	-	2	0	00	2	0	0	~	-	2	~	4	*	0	•	*		*	*	_	-	0	0	0	0	0
	٨١	25.	0	30.1	31.9	32.	38.1	45.5		•	2	6	6	-	-	3	3		6		92.9		97.4	97.4	97.4		99.	000				0
	× AI	25.7				5	8		4	65.8	2	•	6	-	-	9	3	6		2.		4.16	4.16	4.16	4016	1.66	1.66	99.1	99.1	9.1	1066	1.6
	\$/16	7.4	0	1.0	1.9	2.7		2.5	0.4	2.8	5.5	0.6	0.6	1.7	7.9	3.5	3.2	4.6	4.6	5.9	2.		:	•		1.66	1.66	1.66			6	
	AI %	7.42	-:	0.1 3	1.9 3		-	5		100		0	0	. 7	0		.2	4.	4.	5.9 9	6.	4.	6 4.7	4.	4.	7.	7.	~	9.1.9	.1	6 7 6	
	*	2 2	1	w	6	m		4	2	8	0	0	0	-	0	00	2 8	œ	80	6 6.	6 6	0	2	.5	5	4		4			4.	4 9
	AI .	25	30	30	31	32	3	42	24	62	0	69	69	11	1	83	83	89	68	92	35	96	96	96	96	97		0	6	97	6	5
	% Al	25.1	0	30.1	-	3.	22	5	. 4		2	6		-	-	3		6		92.9	3	•		•	•	-	4.16	-	97.4	1.	4.16	-
(\$	ĀI	25.7	0	30.1	-	2	00	2	. 4	2	2	6	6	-					6	92.0	2				93.8	4.1		2.96	1.46		4.7	
UTE MILE	71	25.7	0	30.1	-	2	00	3.	4.	8.79	5	6		:	7	6	3.	6	6	92.0	2	3	93.8	3	93.8	14.7	1.56		24.7	1. 76	4.7	24.7
VISIBILITY (STATUTE MILES)	۲۱ ۲۷	7.5	0.1	0.1	5.1	2.7	8.1	5.5	0.4	2.8	5.5	0.6	0.6	1.7	4.0	3.2	3.8	4.6	9.4	2.0	2.0	3.8	3.8	3.8	3.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7
VISIBI	2 4	7.4 2	7.				7	2.5 4	0.	00	5	0.		1.	6.	~	.2		3.		0	00		00	00		-	•		4.7	6 6.4	
		24	3		100	3	3	4	2	9	5 6	9	9 0	7	7	20	2	9	0	4	5	8	2	2	5 2	0	9	0			6 0	_
	Y 2 %	25	0	30						62.	S.			_				-	-	89	0					25		92	92		57	
	۸I	25.7	0			2	φ.	5.				6		-		3	3		7	4.68		:		:	-	92.0	92.0	92.0	92.0	5	95.0	5
	1	25.7																										92.0	0.26		95.0	•
	45 AI	7.4	-	-	6	~	-	3	0	0	0	-	-	100	0	m	~	~	-	n	5	1	3	3	~	~	~	1.2	1.2	1.2	1.2	1.2
		- 4	-	7.	6.		-		0	0	9.	7	7	00	0	10	~			9	9	5	'n	10	5	4	3.	5		4.		3
	٨١	25	30	30	31	32	38	42	54	62	99	68	99	70	77	62	82	86	98	87	87	8	8	88	88	68	89	89	69	89	63	_
	2	25.7	0	0	-	2		3	54.0	7		8	0	70.8	-	-		5	5	86.7				87.6			88.5	00	00	88.5		8
CEILING	(FEET)	CEILING 20000	18000	16000		12000	1	0006		7000		2000	1	4000		3000	1	2000		300		1000		800		8		400		200	8	
0		2 1		IAI	٨١	AI	٨١	٨١	^	1 / 1	_^	1 1	^	1 11	^	1 11		1 11	^	1 11	^	1 11	٨	1 11	_^	1 11	^	1 11	^	1 11	٨١	1 1 1

TOTAL NUMBER OF OBSERVATIONS

113

DIRNAVOCEANMET SMOS

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

CEILING VERSUS VISIBILITY

MC MURDO STATION, ANTARCTICA

FEB.

=

87

15

CEILING							VISIA	VISIBILITY (STATUTE MILES)	TUTE MILE	(5)						
(FEET)	71	٥ ٨١	\$ 21	7.1	E AI	≥ 2%	7 7	VI 75	¥1 14	-	¾ Al	*	% Al	≥ 5/16	AI	0 1
NO CEILING	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
≥ 20000	32.5	32.5	32.5	32.5	32.5	32.5	32.5	35.5	32.5	32.5	32.5	32.5	35.5	32.5	32.5	32.5
	35.1	m	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
7 16000	35.1	m	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
> 14000	37.7	37.7	37.7	37.7	37.7	3701	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
2 12000	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
	65.6	45.9	65.3	65.6	45.9	45.9	6.24	6.24	45.9	45.9	45.9	6.24	45.9		45.9	45.9
000	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	8.94	46.8	46.8	8.04	46.8	46.8	46.8
1	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	53.3	53.3	53,3	53.3	53.3	53.3	53.3
141	59.7		59.7	59.7	28.7	2.65		29.7	28.1	61.0	0.19	0119	61.0	61.0	91.0	0.19
1	65.3	65.3	62.3		65.3		1	65.3	62.3	63.6	63.6	63.6	93.6	63.6	63.6	63.6
9005	64.9		6.49	6.49	6.49	0	6.49	6.49	6.49	2.99	2.99	2.99	66.2	66.2	2.99	2.99
	61.5		67.5		61.5	+	67.5	61.9	67.5	68.8	68.8	9.89	68.89	68.8	1	8.89
1 41	70.1		70.1	70.1		70.1	70.1	1001	70.1	71.4	71.4	11:4	71.4	71.4	71.4	71.4
1	72.7	72.7	72.7	72.7	1.	12.1	12.7	1	12.7	14.0	0.41	0.01	0.47	14.0	14.0	0.4
3000	81.8	81.8	83.1	83.1	83.1	83.1		83.1	83.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4
	81.8	1	63.1	83.1	83.1	63.1	83.1	-	83.1	4.40	84.4	84.4	84.4	84.4		84.4
7 2000	85.7	85.7	38.3	88.3	89.6	9.69	89.6	89.6		6.06	6.06	6.06	6.06	6.06		6.06
1	85.7	85.7	88.3	88.3	9.68	9.69	89.6	89.6		6.06	6.06	6.06		6006		6.06
8	85.7	85.7	88.3	88.3	9.69	9.68	6.06	6.06	6.06	92.2	3.26	92.2	3.26	92.2		92.2
-	65.7	65.7	88.3	68.3	9.68	0.		-		92.2	35.2	35.5	92.2	92.2		92.2
141	87.0	87.0	89.6	9.68	65.5			· ·	8.46	96.1	1.96	1.96	1.96	1.96		1.96
	87.0			900	2.76	2.2	1	8.96	94.8	96.1	4.16	31.4	4.16	97.4	4.16	4.16
8	87.0	87.0	89.6	9.68	2.26	92.2		8.96	8.46	1.96	4.26	4.16	1.86	98.7	98.7	2.86
	87.0	1	98.6	89.6	35.2	2.26	8.56	94.8	8.76	96.1	4.16	4.16	1.96	98.7	98.7	1.86
8	87.0	87.0	9.68	89.6	3.76	92.2	8.96	ano.	8.46	96.1	4.16	97.4	98.71	0000	100.00	0000
	87.0		89.0	39.6	2.76	35.2	8.96	9.06	8.76	1.96	4.16	37.4	96.71	0000	00.0010.00	0.00
1 1	87.0	87.0	89.6	89.6	2.26	92.2	8.96	8.46	94.8	96.1	4.16	97.4	98.71	0000	000010-00	0.00
1	87.0		9.68	90.68	2.26	2.26	8.56	-	8.46	1.96	4.16		98.7	0000	10.0010.00	0000
8 1 A I	87.0	87.0	-	89.6	35.5	95.2	94.8	00		96.1	4.16	*	98.71	0.00	0000000000000	0.00
	87.0	87.0	89.0	9.68	2.26	2	9.46	94.6	8.46	1.96	4.16		199	0000	0.0010.0010.001	000
1 11	87.0	87.0	89.6	9.68	35.5	92.2	94.8	3.0	8.96	1.96	4.16	97.4	98.71	0000	100.0010.001	0.00

0

0

5703 CEILING VERSUS VISIBILITY JAN

0

TOTAL NUMBER OF OBSERVATIONS

11

SMOS DIRNAVOCEANMET

10928

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

31.0 31.9

٨١

31.9

34.5

77.0

80.5

88.5

74.3

CEILING VERSUS VISIBILITY

WAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MURDO STATION, ANTARCTICA U

87601

HOURS (L S T FEB MONTH 80

187

31.0 31.9 0.7 95.0 31.0 59.3 4.00 98.2 31.9 74.3 53.1 8.0 83.2 38.5 65.6 41.6 66.69 80.5 34.5 1 AI 53.1 4.99 98.2 31.9 59.3 0.77 31.0 34.5 74.3 80.5 88.5 92.0 92.9 31.0 31.9 41.6 83.2 88.5 6.69 8.0 38.1 98.2 99.1 99.1 1.66 2 5/16 59.3 41.0 92.0 74.3 98.2 31.0 53,1 17.0 31.9 8.0 83.2 6.26 31.9 31.9 31.9 31.9 9.09 4.99 80.5 88.5 88.5 1.66 1.66 34.5 99.1 6.69 AI 74.3 92.0 92.0 92.9 92.9 98.2 31.9 41.0 41.6 53.1 98.2 2.86 34.5 6.69 80.5 88.5 88.5 * 74.3 92.0 53.1 4.09 17.0 7.86 98.2 31.0 31.9 6.69 88.5 98.2 34.5 59.3 83.2 88.5 2.86 98.2 38.1 80.5 × AI PERCENTAGE FREQUENCY OF OCCURRENCE 41.6 31.0 31.9 53.1 59.3 4.99 74.3 77.0 10.8 80.5 88.5 6.69 96.5 83.2 88.5 91.2 96.5 96.5 96.5 96.5 34.5 VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) 9.99 31.0 31.0 53.1 59.3 74.3 80.5 31.9 77.0 88.5 31.9 8.0 83.2 88.5 91.2 92.0 36.1 41.6 1.56 2.76 1.96 6.69 7.46 34.5 71 77.0 41.6 31.9 31.9 4.99 80.5 31.0 34.5 34.5 53.1 59.3 B.0/ 88.5 91.2 31.9 6.69 74.3 83.2 88.5 0.26 1.46 65.9 94.7 7.46 . 76 8006 88.5 6.26 77.0 91.2 31.0 31.9 80.5 83.2 6.26 74.3 88.5 65.6 53.1 59.3 4.99 10.8 6.26 38.1 41.6 6.69 7 6.06 74.3 41.6 4.99 80.5 4.68 90.3 8.01 77.0 31.0 59.3 88.5 90.3 83.2 88.5 90.3 34.5 53.1 6.69 90.3 30.3 AI 31.0 4.99 31.9 41.6 53.1 77.0 88.5 88.5 6.69 10.8 83.2 \$ 68 59.3 74.3 6.06 31.9 34.5 38.1 80.5 90.3 90.3 90.3 90.3 90.3 ٨١ 74.3 83.2 88.5 90.3 31.0 31.9 31.9 31.9 31.9 41.6 59.3 65.3 66.4 66.4 70.8 77.0 77.0 88 89.4 85.8 89.4 90.3 80.5 80.5 600 800.3 34.5 34.5 53.1 6.69 90.3 90.3 Al 74.3 31.0 53.1 87.6 59.3 83.2 87.6 31.9 38.1 10.8 41.6 88.5 6.69 89.4 85.8 89.4 N Al 85.8 85.8 31.0 0.69 85.0 31.0 31.9 58.4 52.2 73.5 38.1 85.8 34.5 6.69 85.8 76.1 80.5 84.1 84.1 40.7 79.7 ٨١ 31.9 85.0 31.9 0.58 31.0 34.5 85.0 2.75 9.49 72.6 78.8 0.50 85.0 51.5 0.69 83.2 85.0 15.2 84.1 38.1 68.1 83.5 40.7 1.61 2 11 NO CEILING (FEET) ≥ 20000 VI VI 1800 1600 N IV VI VI 800 800 800 800 2000 2000 4500 3000 2000 88 1500 900 88

AI AI

ALA

AI AI

AI AI

AI AI

AI AI

AI AI

AI AI

TOTAL NUMBER OF OBSERVATIONS

96.5

600

99.1100.0

99.1

98.2

2.86

1.46

2.46

92.9

90.3

90.3

90.3

85.8

85.0 0.58

88

AI AI

AI AI

0.50

85.0

88

AI AI

0.50

80

95.9 94.7

90.3

4.7

6.26

6.26

90.3

6.06

6.06

90.3

1.46

94.7

98.2

96.5 96.5 99.1

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDU STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

17 NOUNS (1.5.7.) FEB

	0 X	33.8 33.8 33.8 33	2000	39.0 39.0 39.0 39	3 40.3 40.3 4	1.6 41.	.9 42.9 42.	4 8.94 46.8 4	7.1 57.1 57.1 5	.6 63.6 63.6	4.9 64.9 64.	7.5 67.5 67.5	7.5 67.5 67.5 6	4.0 74.0 74.0	0.01 6.01 0.0	1 83.1 8	5.7 85.7 85.7	2.2 92.2 92.2	2.2 92.2 92.2	3.5 93.5	3.5 93.5 93.5	6.1 96.1	6.1 96.1 96.1	.7100.0100.017.	8.7100.00100.00	.7100.0010.01	8.7100.0100.01	98.7100.0100.0100	0.0010.0	0.0010.0	98.7100.0100.0100	
	*	33.8	200	30		41.6	N	46.8								83.1		92.2	2.26	93.5	93.5	96.1	1.96	98.7	1.86	98.7	186	98.7	186	1.86	1.86	98.7
	× AI	33.6	•	39.0	40.3			•		3		-		;	9	83.1	3	92.2	2	93.5	3	96.1	1.96	98.7	1.86	7.86	1.86			7.86	1.86	98.7
ES)	Ā	33.8	•	0.00		:		46.8			3				9	3	3	6.06	0	2	2	;	. 3		.0	96.1	96.1	96.1	96.1	1.96	96.1	
VISIBILITY (STATUTE MILES)	¥1 Y1		30.4	30	0	41.6		9		•	3	-		4	9	83.1	5	6	6	6006	0	3		3		3	93.5	3	3	3	93.5	93.5
IBILITY (ST	V1 72	33.8		30	40.3	: -	42.9	8.04		63.6	. 5	67.5	61.5	;		3		89.6		6.06	6.06	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5		93.5	-
VIS	N N		2000	30.0	1		2	46.8		63.6		-	-	*	9		3	89.6	0	6.06	0		3		93.5		3	93.5	3	93.5	93.5	3
	≥ 2%	33.8	200	30	•	41.6	42.9			63.6	*	61.5	1-	74.0	9	83.1		88.3		9.68				•		6.06		6.06		0	6006	0
	E AI	33.8		30.0		:	2.	46.8	57.1	63.6	;	-	-	\$	9	83.1	*											6.06		0		0
	4	33.8	3000	200		41.6	42.9	46.8	57.1	63.6	6.49	67.5		74.0	76.6	83.1	84.4	88.3	88.3	89.6	6	89.6		9.68	6	89.6	89.6	89.6	89.6		89.6	
	۸۱	33.8	:	30		::	42.9	:		-	:	-		:	:	:	:	88.3	:	:	-	:		:		*	:	89.6	:	:	89.6	89.0
	٥ ٨١	33.8	000	300	40.3	41.6	42.9	46.8	57.1	63.6	6.49	67.5	67.5	74.0	16.6	83.1	84.4	88.3	68.3	89.6	89.6	89.6	89.6	9.68	89.6	89.6	9.68	9.68	89.6	89.6	89.6	89.6
	2 1	33.8	30.0	30	40.4	41.6	42.9	46.8	57.1	9.69	6.49	67.5	67.5	74.0	16.6	83.1	34.4	68.3	68.3	89.6	89.6	96.6	89.6	89.6	9.69	89.6	9.68	9.68	89.6	89.6	89.6	89.68
CEILING	(FEET)	NO CEILING	7,0000	18000		12000		000	1	7000	1	2000	1	4000		3000	1	7000		1500		000		8		8	1	141		141		٥

TOTAL NUMBER OF OBSERVATIONS

87601 STATION

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC HURDE STATIONS ANTARCTICA

87601 STATION

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

FEB

1110

ALL HOURS (187)

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MILI	(53)						
(FEET)	01 Y	9 Al	\$ 41	4	6 1	2 2%	7	¥1 ¥	71 2	- AI	% Al	*	% Al	≥ 5/16	× AI	0 11
NO CEILING	28.	8			8				8	8	28.6				8	28.6
≥ 20000		•		30.1	30.1	30.1	ò	30.1	30.1	0	0		0	0	30.1	0
		ż		•	2	2.			5	N	35.2	5	35.2		3	32.2
≥ 16000						3	3	3		3		3	3	3		
		*		34.1		34.1				*	34.1		3			
> 12000		3			3	2	3		3	3	5	-		3		35.3
				6	6	6	6	6		6	6	6				39.7
0006		3	43.7	43.7		43.7	43.7	43.7	3	3	43.8	3	3	43.8	43.8	43.8
		9			57.0		-			-						57.2
1 7 1000		3					0.49			:	*	;	;	*		64.1
1		9			-		-	1				-	-			4.10
2000		6		0	9.69			6				6	6	6		66.69
1		6		0	0		•	0	0	0	0	0	0	0		70.5
1 11		;		75.3				2	75.4	-	3	2	2	75.5	75.5	75.5
1					80		8	8	80		8	8	8	8		78.3
3000		3		83.8	83.8		;	;		84.2	;	+	;	*		84.2
1		4		5	5		3	3	5	5	3	3	2	5		
7000		-		89.1	6		0	0	90.1	40.1	0	0	0			8.06
		-		6	6		0	0	0	0	0	0	0	0		8.06
1 1 200			0.06	90.3	6.06	80.5	916	91.8	91.8	2	95.8	95.8	8.26	8.26	95.8	95.8
1		. 8		0	0		-	2.		N	2.	7	7			95.9
1 1 1 000				91.7	5		*	;	4		0	•	-	-		97.0
		6		2.	2.		3	5			-					97.8
8					3.	6.26	*	5		9		0.86			48.1	98.7
		0		2	2.			2				8	8			98.8
8					93.0		3	3			*		8	6	99.1	66.66
		0		2				5	95.7	8.96				•		4.66
141			92.2	3	63.3			45.7	3	.9			6			0.00
		0				3		95.7	•	. 9		00	6	9.66	6	0.00
8 1 A I	0.06	8006	85.2	95.5	63.3	•	95.1	45.7	3	96.8		8		9.66	6	0000
-		.0		95.5	93.3	63.3		45.7	95.7	8.96	4.86	4.86		90.66		0.00
٨١	•	0		2.		3				•		80		6	99.66	

TOTAL NUMBER OF OBSERVATIONS

760

8

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MAR

00 HOURS (1.5.7.)

	0 41	4.4	8.9	8		5.7	0.5	63.7	1099	7.7	1019					3.9		3.6	7.96	0.0	0.96	6.8	9.4	8 . 4	9.4	9.2	000
		4 4	9 4	4	0	9 2	2	1	-	1	- 0	4	2 0	8	0		-	10		0	0	0	9	.6 9	9 9	5	210
	VI 74	44	46	48	50.	55.			99	67.	100	2	74	75.		WI	0	93	3	96	96	96	6	97.	98	98	66
	\$/16	4.4	8 . 8	8.4	0.0	5.0	0.5	3.7	1.0	7.7	70.1	700	4.2	5.8	3.9	3.9	:	93.6							6.6		3.6
	AI	44	4 4	-		200	9	0	0		1 67	-		-	00	20 0	7	9		0	0	0	9	9	0 0	6 9	
	N N				0		6				•	•.						93.			0			-	97.	-	.86
	*	4.0		8.4	0.0	2.7	3.5				100							11		2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.9
	AI	4 4	3 3		5	0 0	0				70,	_	*	1			o x	92	5			5	•	6	00	-	5
	AI	44	46.			55.				•		•			•					92.			.76		92.		
	-	+ 0																.0.		•		•	•	•			
(ES)	AI	44	44	4	S	35	0	0	0	9	19	-	- 1-	-	80	00	0	0	6	0	92	92	92	92	92	6	92
VISIBILITY (STATUTE MILES)	71	44.4	46.8	49.4	50.0	55.7	50.0	65.9	65.3	6.99	66.99	500	73.4	75.0	82.3	82.3	•	90.3				91:1	•	91.1	91.1	91.1	91.1
(STA	7.7	40	00 4			0 1	_		-			* 1		0	~		0	m	-	7.	-	-	-			-	
BILIT	Ā	4 4	46	84	50	55.	60	62	65	99	99	0	25	5	82		UR	2		6	5	16	16	6	16	5	16
Vis	2 4	46.4		9	0	51.6	0	2		. 9	6.99	-		3	32.3		5	000	-	-	1.16	:	91.1	11.1	1.1	1:1	1.1
	-	400	00 4	4		0 ~		6		0	6	-	9 00	3	~	- 0	. 0	0	-	1	-	-	- 1	~		-	7
	2 2%	44	46	00		55		62.	65	66.	660		2		80	0	7	87	100	88	93			88	20 00	88	88
	6	4.4	9 8	20	0	1.6	0	2	3	•	90		1 80	3	0	0		2.0	8	8.7		8.7	8.	8.7	8.7	8.7	8.7
		4 4	4 4	4	0	2 2	-	9		•	9	10			88	CC :	-	9 00	8 6	9	6	0	8	9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6	9
	VI	44	46		C	51.6	C	~	62	99	66.		71.8	73.	79.	0. 1		67	-	7	87.	87.	8	87.	87.	87.	87.
	•	4.8	9 9			2.0							1.8				•	9.5	1:1	7.1	:	7.1	1.	7.1	7:1	1:	7.1
	٨١	44	Na	-	*	0 0	-	0	-		0	-		6		1	- 1		1		1		1			1	
	۸۱	42.	45	46.	48	50.	58	61.	63.	65.	650	• 00	69	=	77.	:	000	82	82.	82.	82.	82.	82.	82.	82.3	82.	82.
	2	42.7	2.5	0.0	4.8	3.0	1.8	5.00	6.70	5.40	64.5	10.0	68.6	3.60	15,8	3.8	0	80.1	100	10.7		10.7			80.7		10.7
_		1-		+			+	9	-	_	-	-		-	-	-	+		+	-	-			_	- 40	+	_
CEILING	(FEET)	NO CEILING	VI V 0000	7 14000	¥ 12000	900		141	1	2 5000	4500		300	1	200	1800		VI VI		1 1		8	8	400	88	1	30
		Ž												1					1							1	

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA 87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03 HOURS (1.5.T.) Z A Z

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	2	9 11	\$ 41	VI	e Al	> 2%	AI	¥: VI	71	Ā	% AI	*	% Al	≥ 5/16	N N	٨١
O CEILING							1									
2 18000 2 16000																
≥ 14000 ≥ 12000																
1 10000 1 1 9000																
N 2000																
9000																
Y 4500																
3300																
2 2000																
1800																
1200																
8 8																
VI VI 8 00 8 00 8 00																
98																
8 8 1 A I A																
80																

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601 STATION

0

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

06 HOURS (1 S T.) MAR

		Tot m		-	-	-		-	-	_		-		~		-	-	-	100	~	~	-	-	-	-	-	-	~	~	~1	~	a
	0	8.6	0	20		2.			-	2.5	3		5	:		3.					•	;	3	5.2	3		:	•	•	•	:	
	Al	22			3	m	m	3	3			•	0	•	S	~	-	7	-	00	8	ò	6	6	6	0	0	ŏ	ŏ	0	6	ŏ
	.7	28				3	-					3	100		-	*		~										0.		0	0	. 0
	ΛI	28	30	35	32	35	3	4	58	62	63	65	63	67	19	73	7	28	18	87	87	46	62	2	-	5	93	96	96	96	96	20
	0	20		_	6	•	-	3	6	0	-	m	~	1		4															0	0
	5/16	28.	0	2	N	2.	-	0	00	2.	33	5	-	7.	-	3	3	8	8	-	-		2	2	3	2	5	0	0	9	96	c
	Al	200		_	_		-		_		-		3		-	*	_	-	-	-			-		-		-		0	-	0	_
	20	20		2.	2.	2			8	2.	3	2	2																	•	000	
		nn	-	_								-	-		-		-	-			_		-		-		-		-	0	. 0	
	*	8.5				•			•	•																				•		
	VI	22	3								0	0	0	0	9	~	-		=		20		6		5		6	0	6	2	20	
	*	200		•		•		•																		6		3		3		
	AI	28	30	35	35	35	3	0	58	62	63	65	65	67	67	72	12	1	-	86	86	8	90	9	06	80	6	8	06	06	30	7
	-	Næ	-	3	3	3				0		9		. 1		.0	9	4.		3	3		3			6				ü	m c	0
-	AI	28			35			C	20	N	~		er:	-	~	72		-		86	96	0	1	0	0		0	C			0	0
VISIBILITY (STATUTE MILES)		20	-						_		-		3	-	-	9	-		1_	3					_		_	m	3	0	0	3
UTE ,	2	00		2.	5	5	31.	ò	00	2	1	5	5	7	-	~	2	-	-		0	6	0	0	0	0	0	0	0		9	0
STAT		22	-	-	-		-	-	-		-		*		-	9		-	3	-	3		-	3	5	5	3	5	2	6	2 0	2
17 (7.	. 0				2.		•		2		5	-	-				•			•						6	0	0	0		3
Sien	۸ı	an	~	~	m	m	m	4	~	9	0	•	0	•	0	~	-	-	-	æ	00	00	0		-	2	-	-	0	0		•
2	7	200					•													•	•	•						•				:
	AI	28					37					9				7			76			87	80		8		8					80
	21%	20	-	.3		£.	-:			0.				1.		8		c.			•	~	7.	7	7.	7	7:	7:	-:	-:	-	
	AI	200					3						69			7.1		20	16	83		0		87	87	87	8	87	0	8	0 0	0
		~ 30	-	m	~		-	.3		0.	-					8	8.	•	0	7	-	.3		.3	3		2	3	7	m	7	7
	W VI	28				N		0	8	~	63	*		-	-	7	-	0	10		84	9	86	4	86.	0	86				86	80
		40				~	2	7	1	-	3		_	10	22	9	•	4	3		1		2		2		2	en.	2	60	n 4	2
	VI		0		0		-		5			2			4	8	00	3	50				-	:	-	-	-1	=	-	81	= :	11
		40											1_			9	_		_													2
	٧١	. 6		0	:		2		20							68.												-	:	-	:.	:
	\	NN	2	w	-	w	Les .	10	2								1										1		20		000	
	•	4.0	. 8		:		5.3					-	:		:	3.6	3.6	3.4	3.4	3.8	3.8	:	3.			-					0	0.7
	Al	29							3	3	õ	9	9	ò	0	õ	0	-	1						1_		1_		00	00	0	ě
	0	40		. 7						6				1.		. 7		9	9.	0.	0.	8	. 8			80			•			
	AI	22	6	0	0	0	2	38	3	58	59	61	19	63	63	0	67	72	1	79	1	13	18	79	13	19	13	79	5	2	5 6	2
		9 _	1		-	_	-	_	-	_	-	_	-	_	-	_	-	_	-		-	_	-	_	-	_	-	_	-		_	
CEILING	EET)	CEILING	800	16000	400	12000	8	800	8000	8	9009	200	4500	8	3500	300	2500	2000	1800	1500	1200	90	8	8	700	8	9	8	30	200	8	
5	=	9 1	A	٨١		14		٨١	^	I AI	^	I AI	٨	1 11	٨	1 11	٨	I AI	Al	٨١	٨١	IAI	A	IAI	^	1 1	^	I AI	A	IAI	Al	٨١
			-	_	_		_	_	_	_	_		1	-	_		_		_	_			_		_		-		_			_

TOTAL NUMBER OF OBSERVATIONS

124

0

0

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

00 HOURS (1.5.T.) MAR

7 AI	A1	AI TAI TAI TAI TAI TAI TAI TAI TAI TAI T	A	A	A	VISIBILITY (STATO) VISIBILITY (STATO) VISIBILITY (STATO)	VISIBILITY (STATUTE ANLES) VISIBILITY (STATUTE ANLES) VISIBILITY (STATUTE ANLES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STAUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	
A1	AI A	A1	AI	AI	AI	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) S 24	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE AILES)
A I			42 A1	42 A1	42 A1	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE AILES) VISIBILITY (STATUTE AILES) VISIBILITY (STATUTE AILES)	VISIBILITY (STATUTE AILES) VISIBILITY (STATUTE AILES) VISIBILITY (STATUTE AILES)	VISIBILITY (STATUTE MILES) 4 2 3 2 2 4 2 1 4 2	VISIBILITY (STATUTE MILES)
	NA N		%	%	%	VISIBILITY (STATUTE MILES) 3 2 2 2 2 1%	VISIBILITY (STATUTE AILES) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VISIBILITY (STATUTE MILES) 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VISIBILITY (STATUTE MILES) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VISIBILITY (STATUTE MILES) 3 ≥ 2½ ≥ 1½ ≥ 1½ ≥ 1½ ≥ ½ 1 ≥ ½ ≥ ½ 2 ½ ≥ ½ 2 ½ ≥ ½ 3 ≥ 2½ ≥ ½ 4 ≥ ½ 5 ½ ≥ ½	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)

SMOS DIRNAVOCEANMET

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601 STATION

0

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 MAR

CEILING							VIS	VISIBILITY (ST.	(STATUTE MILES)	ES)						
(FEET)	5 1	9 11	SO AI	AI AI	e Al	1 2%	2 41	Y1 7%	V 1%	Ā	% Al	*	× AI	≥ 5/16	N AI	AI
O CEILING	-	60	21.8	-	-	-	-	1:	-	-	-		8.12	1	1:	1:
> 20000	5	00	25.8	11	3	12		•			:		50.02	•	•	•
	28.2	.2	28.2	00		500		6	6				29.0		6	29.0
N 16000	5.		32.3	N	3	N	3	3		3			33.1	3	3	
	*		34.1	4		3	5		5	5			35.5	5	5	5
12000		.3	36.3	9	;	\$	-	-	1.	-	-		37.1	7.	-	-
		7.	41.1	-	-	-	-	-	-	-	:		6:14	-	-	-
000		•	47.6	-		-			8	8	*		48.4			
		-	55.7	5	3	5	. 9	0	9	0	-		50.5	0		
700			56.5	•		9	-	-	7	-	-		57.3	-	-	-
		0	58.9	X		80	6		6	6			59.7	6	6	6
2000		6	61.3	-	-	-	2.	3	2	2	~		62.1	2.	2	5
			6119	-	-	-	2.	2	2	2	2		62.1	2	7	7
900		1.	63.7	63.7	63.7	400		64.5	64.5	64.5	:		64.5	4	;	;
		6.	6.99	-0	0	0	1:	-	-				67.7	-		-
3000		0	71.8	-		-	2	2	2.	3	~		72.6	2	3	5
			13.4	113			3	*	*	*	:		74.2	;		
2000			85.3	N	2	N	*		ë	3	*		83.1	3	3	3
			82.3	Ci	2	1	3		3	-	-		83.1	3	3	3
1500		•	83.9	~	;	4	.0		•	:	:	-	87.1	-	-	-
1			83.9	1	3	4			0				87.1		-	:
000			83.9	4	9	o	8		8	ċ	0	0	91.1	:	=	:
			83.9	3	0	0	8	8	8	0	:	0	91.1	-	-	:
8		.3	83.9	4		0		8	8	-	:	-	61.6	-	:	:
			83.9	3		0	. 8		80	-	:	-	92.7	2	3	3
8		.3	83.9	4	•	0		88.7		-	:	-	93.6	3	3	3
			83.9	4		0		88.7		-		-	93.6	3	5	3
8		.3	83.9	84.7	•	C		88.7	8	91.1	-	-	93.6		3	2
			83.9	84.1	86.3	0	8	88.1		-	-	-	93.6	3.	9	9
38	81.5	65.3	83.9	84.7		86.3	88.7	88.7	88.7	91.1	91.1	91.9	93.6	93.6	90.8	96.8
8			83.9	94.1	86.3	0	8	88.7		91.1	•	-	93.6	3	•	:
		•							•	,					1	4

TOTAL NUMBER OF OBSERVATIONS

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111

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15 HOURS (L S T.)

MAR

CEILING (FEET)								VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
	2	۰ ۸۱	8	4	17 3	≥ 2%	2 2	۲۱%	Z 1%	71	% Al	* 1	N 2	≥ 5/16	× 1	٨١
NO CEILING																
7 18000 1 4000																
1 14000 1 12000																
1 10000																
3000		No.														
9009																
4000																
3000																
2500																
1500																
1200																
008																
8 8																
400																
300		1	1									¥	1			
80																

0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

73-76

MAR

										1						
				PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)	(FROM	FREQUE	UENC)	SERVA	OBSERVATIONS	RENCI					5 1) SANON	
CEILING							VISI	BILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	5 1	9 11	S Al	7 /1	E AI	≥ 2%	7	٧١ ٧٧	71	<u>-</u>	% Al	*	Z Al	≥ 5/16	AI	0
NO CEILING	25.	25		25.8				25.8	25.8	3.			8.62	26.6	20.0	20.6
1 20000	50.	26	20.	•	20.0	26.0	9	•	:	0	•	2000	•	40,72	27.04	51.0
18000	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.8	29.8	29.2
		32	32.		N	2	2	2.		2	32.3		32.3	33.1	33.1	33.
12000		33	33.	33.1	33.1	33.1			33.1	33.1	•	33.1	33.1	33.9	33.9	33.5
V 10000		36	36.	36.3	36.3			36.3	36.3	36.3	•	36.3	30.3	37.1	37.1	37.1
		37	37.			-	-				. 1			39.5	39.5	39.5
0008 ~		20		50.8	50.8	50.8	50.8	50.8	50.8	51.6	21.0	21.0	21.6	52.4	52.4	52.4
		2	26	57.03	-			•	•		0	0 1	2001	26.7		200
000		20		64.4	62.3	64.5	45.0	46.5	64.7	0 00	66	66.1	000	000	000	00.00
- 1		9	90			. 3				1	66.	6601		6.99		
VIV 600		99	99			66.1	66.1			67.7	67.7	67.7	67.7	68.6	68.6	68.6
		69	69	69.4	70.5	0	10		0			11.8	11.8			72.6
300		72	72.	~	73.4	73.4	13.4	73.4			75.0	75.0	75.0	75.8	75.8	75.8
1		7.5	1	15.0	15.8	5	75.8		15.8			-	11.6	78.2		78.2
500		80		80.7	81.5	-	82.3	82.3	82.3	83.9	83.9	83.9	83.9	85.5	85.5	85.5
1800		80	1	80.7	81.5	81.5		2.		83.9		-		85.5	85.5	85.5
1500		82		82.3	83.1	63.1	83.9			85.5		85.5	85.5	87.1	87.1	87.1
		82	1	82.3	83.1		63.9	83.9	83.9	85.5	85.5	85.5		87.1	87.1	87.1
000		8		86.3	87.1	87.1	30.3	6006	80.3	91.9	6116	92.7	2	94.4	4.46	4.46
		85		86.3	87.1	87.1	6.06		8006		6.16	1.26	3.	95.2		95.2
8	•	86		87.1	87.9	87.9	1.16	1.16	91.1		92.7	93.6	2.66	96.8	90.8	96.8
		88	1	87.1	87.9		91.1	91.1	91.1	92.7		93.6	95.2	96.8		8.96
8	•	86		87.1	87.9	61.0	91.1	91.1	91.1	92.7	92.7	93.6	2	96.8	96.8	8.96
		68		87.1	87.9	87.9	91.1	91.1	91.1	92.7		93.6	2.	96.8	8.96	8.96
8	•	86		87.1	87.9	87.9	91.1	91.1	91.1	92.7	92.7		0.96	91.6	91.6	91.6
		86		87.1	87.9		91.1	91.1	91.1	92.7	1.76	3	0.96	97.6		91.6
300	•	86		87.1	87.9	87.9	91.1	91.1	91.1		92.7	93.6	96.8	4.86	98.4	98.4
8	83.1	8		87.1	87.9	6.70	91.1	91.1	91.1	92.7	92.1	93.6	800	98.4	98.4	2066
		86		87.1	87.9	87.9	91.1	91.1	91.1		92.1	•	96.8	4.86		0.00

TOTAL NUMBER OF OBSERVATIONS

21 HOURS (1.5.T.)

MAR

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	71	NI NI	% AI	41	e vi	> 2%	2 1	V1 %	¥1 YI	Ā	N NI	* 11	Z AI	≥ 5/16	AI N	0 1
NO CEILING																
18000															1	
Y 14000																
V V V V V V V V V V V V V V V V V V V																
7000 7000 7000																
0009 AI AI																
VI VI 0004																
3300																
Y 2500																
VI VI 081 081																
1200																
8 8 11 11																
VIVI 88																
388																
80																

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS (1 5 T.) HAR

E

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	2 1	9 AI	\$5 A1	4	e Al	≥ 2%	7 AI	V 1%	¥1 Y	Ā	% AI	*	Z AI	≥ 5/16	AI N	0 11
NO CEILING	29.4	29.4	29.8	29.8	30.0	30.0	30.0	30.0			30.	30.0	00	30.2	30.2	30.2
2000	7 6		- 6.	4 6		9	7	3		4 5	. 7 .				3	36.
18000	34.7	34.7	35.1	35.1	35.50	35.5	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.9	35.0	35.9
	36.1		36.5	36.5	9	0	1		1		37.		-		1	37.3
12000	37.1		37.5	37.5		37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1		38,3	38.3
	40.7	•0	41.1	41.1	41.5		41.7	41.7		41.7	41.		:		:	41.9
0006	44.4	44	45.0	45.0	45.4	45.4	45.6	45.6	45.6		45.8	45.8	45.8	46.0	46.0	46.0
	24.6	55.	55.7	5	9	56.5	26.7			56.9	50.				-	57.1
7000	58.1	58	59.1	. 59.1	88.8	6	60.1		1.09	ċ	90	6000	0	•	60.7	60.7
	60.7	61.	61.9		62.1	2	65.6	65.9		6	63	•		•	3	
2000	65.3	63.	63.7	63.7		64.3	64.7	64.7	64.7	65.3	•	65.3	65,3	3	65.5	65.5
	06.3	63.		63.	64.5	04.5	1.49	1.49		5	65.	65.3	65,3	65.5		65.5
1 4000	64.3	65	62.6	62.6				6.99	6.99		67.		1	-	-	67.7
	1.99	67.		67.7	68.8	68.8	6		6	6	69	6				8.69
3000	4.69	70.	71.2	71.2	72.2	2.	72.8	73.0	73.0		73.				74.0	74.0
1	10.6	=	•	72.6		13.0	*	74.4		75.0	75.	15.2	3		2	75.4
1 2000	77.0	78.	-	19.0	80.2		81.1	81.3	81.3		00		2.		82.7	82.7
	77.0	8	•	6		80.2		•			82.	82.3			82.7	82.7
> 1500	80.0	81.	82.5			64.3				86.5	80		86.9	87.3	87.3	87.3
	80.0	61.	•	82.5	84.1	84.3	85.3		•		86.	6.98			87.3	87.3
1000	81.1	82.	84.5	6.48	86.9	87.1		89.7	6		.06			•	93.4	93.4
	81.1	82.	84.7		1.	87.3	39.7	106	1.06	91.3		6.26			:	0.46
008	81.3	85.	6.48	85.3	87.3	87.5	80.0	90.3		91.7	91.7	93.2		2	0.56	62.0
	81.3	82.	6.48	85.3	87.3	87.5		90.3		(A)	91.7		5		95.4	
009	81.3	82.	84.9	85.3	87.3	87.5	6	800.3	0	91.7	91.7	93.4	_	2	2	
	81.3	82.	6.48		87.3	87.5		6.06	80.3	91.7	41.7	93.4	2.		96.2	
2 400	81.3	82.	6.48	85.3	87.3	87.5	6	90.3	0	91.7	91.7	93.4	3		96.6	96.8
	81.3	82.	64.9	0.257	87.3	61.2	6	80.3	90.3	91.7	61.7	43.4	2	36.2	8.96	97.0
8	61.3	- 1	6.48	85.3	-	87.5		80.3	90.3	91.7	91.7	93.4	•	•	97.4	97.6
	81.3	82.	6.48				.6	8006	800	91.7	1.16	43.4	0.06	96.6	:	4.86
١٨١	81.3	82.	6.48	85.3	87.3	87.5	89.9	90.3		91.7	92.1	93.8	0	97.0	97.8	0000

TOTAL NUMBER OF OBSERVATIONS

496

87601 STATION

0459

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DO NOON APR

9440

CEILING							•		יייייייייייייייייייייייייייייייייייייי	(2)						
(FEET)	5	۰ ۸۱	\$ 1	4	8	> 2%	7	VI 71	¥1 %1	- AI	% AI	*	Z AI	≥ 5/16	VI N	٨١
NO CEILING		6		63.3	3.		3.	3	3		4.	4		4.	64.2	64.
× 20000		3		63.3	63.3	63.3	63.3	63.3	3	63.3	2.49	*	64.2	64.2	*	64.
		3			3.					63.3	*	*			2.49	. 49
14000				2.40	64.2	2.49	2.49		2.49		65.0	5	65.0	65.0		65
		4			4	04.2	*		5	120	2	3		65.0		65.
12000		5		65.0	65.0	0.50	65.0	65.0	65.0	5	65.8	65.8		3	3	
		5			3			5			9			9	9	
000		.9		66.7	66.7	66.7	66.7	9		.9	67.3	67.5	-	67.5		67.
1		6			0	2.60	.6	6	2.69	69.2				0	•	
141		0			0	0			0	ċ	711.7	-	-	711.7		7
1		2			3	3	3.	3.		3	7.41					14.
2000		4		75.0	5	75.8	3	5		100	76.7	76.7				76.
		*		75.0	3	15.8		5			1001	76.7				76.
1 1		•		77.5	00		*		78.3			79.5	6	79.2	79.2	79.
1		9				0			00	•		79.5		5		19.
3000		-		82.2	83.3	83.3	3		•		84.2	84.2	*			8
1		-		82.5	3	83.3		3.		3.		84.2			84.2	*
700					6	0	89.2		6	0	0.06	0.06	0		0	
		3.			6		6	6		6		0.06			0.06	90
141		. 9			0.06	0	8.06	0	8.06	8.06	-	95.5	2	92.5	2.	
		-			0	•	-	_;		-	92.5	93.3		93.3	93.3	93.
8		-		80.06	92.5	2	*	3.46	*			1.96	7	97.5	1.	
		2			3	•	*	;	•	34.5	0.56	96.7		97.5	97.5	97.
8		-				N	*	4	*	*	3		-			
1		2		0	2.		3	34.5	*	3		0			97.5	
8		1.		90.8		92.5	34.5	4	2.46	94.2				98.3	98.3	98.
1				0		92.5		;			95.0	1.96				98
141		7		90.8		92.5	2.56		2.46	*			1.		10000	100
88	87.5	87.5	89.2	90 B	92.5	92.5	94.2	2.46	94.2	94.2	95.0	96.7	97.5		100.0	000
				8.06		92.5	3.46	3.46	3.46	*	95.0	1.96		10000	100.0	
					4											

0

TOTAL NUMBER OF OBSERVATIONS

120

MC MURDU STATION, ANTARCTICA

MANAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

APR

03 HOURS (1.5.T.)

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)					
	۸۱ ۵	٨١	۶۶ ۸۱	AI	۸I	1 2%	7	¥1 Y	¥1 ¥	Ā	% AI	*	Z X	 2 5/16	2 5/16 2 1/2
NO CEILING															
71 Y 1 4000 0000															
12000															
VI VI 0000 0000															
Y 8000 7 7000															
VI VI 5000															
V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V 1															
3800															
2 2000															
1800															
Y! Y! V!															
88															
8 %															
VI VI 800 800															
88															
80															

O

0

0

0

0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601 STATION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

90 APR

	٨١	55.8		5		58.3	9	9	68.	-	71.	~	-		-			83.3	CO		C	0		98.3	0		-	.66		-	000
	VI 74	55.8	56.7	58.	58.	58.3	S	61.	68.	~	71.	~	72.5	74.	75.	-	-	00	00	92.	6	98.	6		-	66	.66	.66	66	-	0.00
	≥ 5/16	55.8	5	8	20	58.3	0		8	70.8	71.	72.5		74.2		75.8	0		83.					98.3					89.2		99.2
	λ!	55.8	0		58,3			-			-	72.5	72.5	74.2		75.8		83.3		92.5	92.5	98.3	98.3	98.3		99.2		99.2			99.2
	*	55.0		57.5		•					0	•-			75.0	75.0		2	82.5	0	0	2.46		84.2		84.2	34.2	84.2		34.5	2.46
	% Al	54.2	5	1		-	0			0				-	75.	75.	75.	82.	82.		90.	. 46	C.	. 46	*	94.2	94.2	*		94.2	2.46
ES)	- AI	54.2		-	•	-	6			70.0				•	•	75.0		•		6	6	93.3	3	6					93.3	93.3	6.69
VISIBILITY (STATUTE MILES)	¥1 Y1	54.2	3	1			5	8.09			0	•	-	73.3	•	75.0	5	-		89.2	6		2.	92.5		92.5		92.5	95.5	92.5	92.5
IBILITY (ST	¥1 Y	55.2	5			57.5	59.5	0	61.5	70.0	70.8			73.3	75.0	75.0	5	81.7		89.2		92.5		95.5		95.5	92.5				6.26
VIS	1 2	53.3	50	56.7	.0		9	0	0	69.5	0	70.8	0			74.2		80.8	80.8			91.7			91.7	91.7	91.7	91.7	91.7	91.7	91.7
	≥ 2%	54.2	10	.0			58.3	0.09	.0	69.5				72.5		74.2	75.0		19.2		86.7	90.0		90.0	0	0.06		90.0	90.0	0	0.06
	N AI	53.3	3	9	. 9	56.7	00	0.09	66.7	6		0	70.8	3		74.2		79.2		86.7	86.7	0.06			0		0		0.06	0	0.06
	AI	53.3	5		56.7	56.7	58.3	0.09	66.7	69.5	70.0	70.8	70.8	72.5	74.2	74.2	75.0	78.3		85.8	85.3	89.2	89.2	0	89.2	6					2.68
	۶۰ ۸۱		1	3	9	56.7		0	66.7		0	0	0		•	74.2	3	1		10	3			88.3	88.3			88.3		38.3	88.3
	9 Al	53.3	3		9	56.7	58.3	·	66.7	69.5	70.0	70.8	70.8	72.5	74.2	74.2	74.2			81.7						5	5				0.0
	0 41	54.3	55.0	56.7	56.7	-	3	0	CD	3	2	0	0	00	1	72.5	72.5	74.2	74.2	80.0	0,08	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	85.8	200
CEILING	(FEET)	NO CEILING	V 18000	≥ 16000		> 12000		000		7000	1	2000		141	1	3000	1	7000		1300	1	141		08		8		111		1 200	8

TOTAL NUMBER OF OBSERVATIONS

120

084

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

00 HOURS (1.5.T.) APR

	0 11																
	2																
	AI																
	≥ 5/16																
	Z AI																
	* 11																
	% Al																
ES	- AI																
VISIBILITY (STATUTE MILES)	¥1 ¥1																
IBILITY (ST	V1 7/2																
VIS	~ Al																
	2 2%																
	e VI																
	VI																
	\$ AI																
	9																
	2																
CEILING	(FEET)	NO CEILING	18000 1 16000	Y 14000	2 10000 2 4 3 9000	N 1 8000	0005	V 1 4500 4000	3000	2 2500	1800	1200	0 00 A1 A1	009 A1 A1	Y Y Y 900	380	80

TOTAL NUMBER OF OBSERVATIONS

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATION, ANTARCTICA

87601 STATION

0

0

0

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 HOURS (L S T.) APR

120

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

87601

NO CEILING

CEILING (FEET)

VI VI 00091 0000

Y 1400

VI VI 000 000 000

000 000 01 A1 A1

4000

ALAI

VI VI 800 800 800

2000 1 × 1 ×

VI VI 1500 1500

3300

VIVI 1000

88

AI AI

88

AI AI

88

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

APR HOHTH

E

15 HOURS (LST.)

٥ ١ × Al 2 5/16 2 N * * VISIBILITY (STATUTE MILES) 71 71 7 7 ۲ ۸۱ Y 21/2 ۸I 4 41 ۰ ۸۱ 2

TOTAL NUMBER OF OBSERVATIONS

488

80

300

AI AI

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601 STATION

APR

1.8 HOURS (1.5.7.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2 10 2 6 2 5 2 4 2 3 2 2 4 2 3 2 2 1 5 2 1 5 2 1 7 5 1	CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MILI	(S)						
50.0 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 50.8 51.7 <td< th=""><th>(FEET)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th><th>Ā</th><th></th><th></th><th></th><th></th><th>VI 74</th><th>٨١</th></td<>	(FEET)								1		Ā					VI 74	٨١
10000 50.0 50.0 50.0 50.0 50.0 50.0 50.0	NO CEILING	0 0			00	00	00	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.
10000 56.7 56.7 57.5 57.5 57.5 58.8 55.8 55.8 55.8 55	18000	0			0	0	0	51.7		51.7			51.7	-	51.7		51.
10000 56.7 56.7 57.5 57.5 57.5 57.5 58.3 58.3 58.3 58.3 58.3 58.3 58.3 58		0			-	-	-	52.5	-	2		3	•	2		52.5	52.
13000 56.7 56.7 57.5 57.5 57.5 57.5 58.3 58.3 58.3 58.3 58.3 58.3 58.3 58		*			5	3.	3	3	5.	5	5.					55.8	55.8
10000 56.3 58.3 59.2 59.2 59.2 59.2 50.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0					-	-	-	8	8							•	58.
56.3 58.3 58.3 58.3 58.3 69.0 60.0 <th< td=""><td></td><td>9</td><td></td><td></td><td></td><td>-</td><td></td><td>8</td><td>8</td><td>8</td><td>8</td><td></td><td></td><td></td><td></td><td>58.3</td><td>58.</td></th<>		9				-		8	8	8	8					58.3	58.
9000 61.7 61.7 62.5 62.5 62.5 62.5 63.3 63.3 63.3 63.3 63.3 63.3 63.3 63						6	6	ò	0	0	0		0		0	0	60.0
7000 64.2 64.2 65.0 65.0 65.0 65.0 65.8 65.8 65.8 65.8 65.8 65.8 65.8 65.8				62.5	5	2.	2.	3		3	3.		3.	3	3.	63.3	
5000 59.2 70.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 <th< td=""><td></td><td>3</td><td>64.2</td><td>68.0</td><td></td><td>3</td><td>5</td><td>5</td><td>5</td><td>5</td><td>3</td><td></td><td>2</td><td>3</td><td>3</td><td></td><td>65.8</td></th<>		3	64.2	68.0		3	5	5	5	5	3		2	3	3		65.8
3500 70.8 70.8 71.7 <th< td=""><td>1</td><td>5</td><td>69.2</td><td>70.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td></td><td>0</td><td>:</td><td>-</td><td>71.7</td><td></td></th<>	1	5	69.2	70.0	0	0	0	0		0	0		0	:	-	71.7	
4500 70.8 70.8 70.8 71.7 71.7 71.7 72.5 72.5 72.5 73.3 73.3 73.3 74.2 74.2 74.2 74.2 74.2 75.0 75.0 75.0 75.8 75.3 73.3 74.2 74.2 74.2 74.2 74.2 75.0 75.0 75.0 75.0 75.0 75.8 75.3 74.2 74.2 74.2 74.2 74.2 74.2 74.2 74.2		0	70.8	71.7		-	-	5		~	3	3		*	*	74.2	
73.3 73.3 74.2 74.2 74.2 74.2 75.0 75.0 75.0 75.0 75.8 75.8 75.8 75.8 75.8 76.7 76.7 76.7 76.7 76.7 76.5 3300 74.2 74.2 74.2 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0		0	70.8	11.7	-	-		5		2	3.		3.	*	4.	*	4
3300 74.2 74.2 75.0 75.0 75.0 75.0 75.8 75.8 75.8 76.7 76.7 76.7 77.5 77.5 77.5 3300 79.2 79.2 80.0 80.0 80.8 80.8 81.7 81.7 81.7 82.5 82.5 82.5 82.5 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83		-	73.3	74.2	*	3		3		3	5	5	2			76.7	76.7
3000 79.2 79.2 80.0 80.0 80.8 81.7 81.7 81.7 81.7 82.5 82.5 82.5 82.5 83.3 83.3 83.3 83.3 83.3 83.3 83.3 85.8 85.8	1	*	74.2		5		-	5						-		-	11.
2000 85.8 85.8 86.7 86.7 87.5 87.5 88.3 88.3 89.2 89.2 89.2 90.0 90.0 1500 85.8 85.8 86.7 86.7 87.5 87.5 88.3 88.3 89.2 89.2 89.2 89.2 90.0 90.0 1500 86.7 86.7 87.5 87.5 87.5 88.3 88.3 89.2 89.2 89.2 89.2 90.0 90.0 90.0 90.0 90.0 90.0 90.0 9		6		-	0	ò	0	:		-	2	2	2	3	3	83.3	83.3
85.8 85.8 85.8 86.7 86.7 87.5 87.5 88.3 88.3 88.3 89.2 89.2 89.2 90.0 90.0 1800 85.8 85.8 86.7 86.7 87.5 87.5 88.3 88.3 89.2 89.2 89.2 90.0 90.0 90.0 86.7 86.7 88.3 88.3 89.2 89.2 89.2 89.2 90.0 90.0 90.0 86.7 86.7 88.3 88.3 89.2 89.2 89.2 89.2 90.0 90.0 90.0 87.5 87.5 90.0 90.8 91.7 91.7 91.7 92.5 92.5 1000 87.5 87.5 90.0 90.8 91.7 92.5 93.3 94.2 94.2 94.2 95.0 96.7 97.5 90.0 90.0 90.0 91.7 91.7 92.5 93.3 94.2 94.2 94.2 95.0 96.7 97.5 90.0 90.0 90.0 91.7 92.5 93.3 94.2 94.2 94.2 95.0 96.7 97.5 90.0 88.3 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 88.3 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 88.3 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 95.8 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 95.8 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 95.8 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 95.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 95.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 95.8 90.3 90.2 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 95.0 95.8 90.3 99.2 90.0 95.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 95.0 95.0 95.8 98.3 99.2 90.0 95.0 95.0 95.0 95.0 95.8 98.3 99.2 90.0 95.0 95.0 95.0 95.0 95.0 95.0 95.8 98.3 99.2 90.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0	1	0	0	:	c	-	-	2.		2.		3	3	*	*	*	84.2
1800 85.8 65.8 66.7 86.7 87.5 87.5 88.3 88.3 89.2 89.2 89.2 90.0 90.0 90.8 90.8 91.7 91.7 91.7 92.5 92.5 1200 86.7 86.7 88.3 88.3 89.2 90.0 90.8 90.8 91.7 91.7 91.7 92.5 92.5 1200 87.5 87.5 90.0 90.8 91.7 92.5 93.3 93.3 94.2 94.2 94.2 95.0 96.7 97.5 90.0 90.8 91.7 91.7 92.5 93.3 93.3 94.2 94.2 94.2 95.0 96.7 97.5 90.0 87.5 87.5 90.0 90.8 91.7 91.7 92.5 93.3 94.2 94.2 95.0 95.0 96.7 97.5 90.0 88.3 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.0 88.3 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 80.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 86.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 86.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 86.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 86.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 86.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 86.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2		.0	3		.9	-	-	8			6	6	6	0	0	90.0	
300 36, 7 36, 7 36, 3 36, 2 36, 0 36, 0 36, 8 36, 1 36, 7 3		5	5.		9	-	-	. 8	88.3	8	. 6	6	6	0	0	0	90.0
1200 86.7 86.7 88.3 89.2 89.2 90.0 90.8 91.7 91.7 91.7 92.5 93.3 93.3 94.2 94.2 94.2 95.0 96.7 97.5 80.0 87.5 87.5 90.0 90.8 91.7 91.7 92.5 93.3 93.3 94.2 94.2 94.2 95.0 96.7 97.5 80.0 87.5 87.5 90.0 90.8 91.7 91.7 92.5 93.3 93.3 94.2 94.2 94.2 95.0 96.7 97.5 80.0 87.5 87.5 90.0 90.8 91.7 92.5 92.5 93.3 94.2 95.0 95.0 95.0 96.7 97.5 80.0 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 95.0 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2		0	.9		8	.6	6	0	0	0	-	-	-	2	2	92.5	
87.5 87.5 90.0 90.8 91.7 91.7 92.5 93.3 94.2 94.2 95.0 96.7 97.5 80 87.5 87.5 90.0 90.8 91.7 91.7 92.5 93.3 93.3 94.2 94.2 95.0 96.7 97.5 80 87.5 87.5 90.0 90.8 91.7 91.7 92.5 93.3 93.3 94.2 94.2 95.0 96.7 97.5 80 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 95.0 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 98.3 99.2		0	.0			6	6	0	0	0	-	-	-	2.		3	92.
800 87.5 87.5 90.0 90.8 91.7 91.7 92.5 93.3 94.2 94.2 94.2 95.0 96.7 97.5 80.8 87.5 90.0 90.8 91.7 91.7 92.5 93.3 94.2 94.2 94.2 95.0 96.7 97.5 80.8 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 95.0 95.0 95.0 95.8 98.3 99.2		-	-			:	-	2.	3	3.	*	•	3	0	97.5		97.
800 87.5 87.5 90.0 90.8 91.7 91.7 92.5 93.3 94.2 94.2 94.2 95.0 95.0 96.7 97.5 50 86.3 88.3 90.8 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 50 86.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 50 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 50 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 50 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 50 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 50 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 50 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2		-	-		0		-	2.	3	60	. 4	*	2	7.96	97.5	-	
200 886.3 896.3 996.2 94.2 94.2 95.0 95.0 95.8 98.3 99.2 200 886.3 90.6 91.7 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 200 88.3 88.3 90.6 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 200 88.3 80.8 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 200 88.3 90.8 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 88.3 90.8 91.7 92.5 93.3 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 80.8 91.7 92.5 93.3 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 80.8 91.7 92.5 93.3 </td <td></td> <td>-</td> <td></td> <td></td> <td>0</td> <td></td> <td>-</td> <td>5</td> <td>3</td> <td></td> <td>3</td> <td>;</td> <td>3</td> <td></td> <td></td> <td>97.5</td> <td>97.5</td>		-			0		-	5	3		3	;	3			97.5	97.5
88.3 88.3 90.8 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 88.3 88.3 90.8 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 98.3 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2		00			1.	2.	2		*	*	5	5	5			99.2	66
500 58.3 58.3 50.8 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 300 58.3 58.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 300 58.3 58.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 58.3 58.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 58.3 58.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 58.3 58.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2						?	2			*	5	5	3	8		99.2	99.
400 68.3 88.3 90.6 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 200 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 0 88.3 83.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2		30	8		91.7		2.		4	3	5	3	3		99.2	99.2	2.66
300 88.3 88.3 90.8 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2 200 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 86.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 0 88.3 83.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2		8			91.7		2.	-		*	5	3			89.5	99.5	66
200 88.3 88.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 100 88.3 86.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2 0 88.3 83.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2		00			91.7	92.5		3.		*	5	3		8	99.2		66
100 88.3 88.3 90.8 91.7 92.5 92.5 94.2 94.2 95.0 95.0 95.8 98.3 99.2		00			91.7				•	*	5	Š			•		99.
0 88.3 83.3 90.8 91.7 92.5 92.5 93.3 94.2 94.2 95.0 95.0 95.8 98.3 99.2		8	8		1	5.	2	•	•		5	5	3.	8	2.66	9.2	100
		30	8		-	2.	2			4	5	3	3		89.2	.2	

TOTAL NUMBER OF OBSERVATIONS

120

888

CEILING VERSUS VISIBILITY

APR NOUTH 21

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
(FEE)	0 7	9 Al	\$ AI	7 4	E A1	2 2%	2 4	Y 1%	¥1 YI	- 11	% Al	* 11	% AI	≥ 5/16	× AI	0 11
NO CEILING																
00081 YI YI 00081 YI																
≥ 14000 ≥ 12000																
1 V V V V V V V V V V V V V V V V V V V																
N 2000																
0009 Al Al																
Y 4500																
3000																
Y 2500																
1800																
1200																
88																
VI VI 8 &																
VI VI 80 80 80 80 80																
380																
80																

0

TOTAL NUMBER OF OBSERVATIONS

3

DIRNAVOCEANMET SMOS

12534-05101

87601 STATION

477,

. .

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601 STATION

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS (LST.) APR

200

CEILING							VISI	VISIBILITY (STATUTE MILES)	LTUTE MILE	[5]						
(FEET)	2 1	9 11	8 11	AI AI	E AI	1 2%	N AI	VI VI	¥1 VI	-	NI NI	* 11	Z AI	≥ 5/16	N AI	O AI
NO CEILING	52.5	52.5	51.9	51.9	51.9	52.7	52.1	52.3	52.3	52.3	52.5	53.3	52.7	52.7	52.7	52.7
7 18000		2		10	2	2	3	1	3	3	3			1		3
7 16000		4			*	4	3	5	3	3	3			5		5
		3		9	0			9	9	9	.0			.0		
13000				. 9			-	1	2	7.	7.			7		57.7
1 3 3					1					8	8			6		
2 9000		6		6	6	6	0	0	0	ċ	0			-		:
		*		4		*	3	*	4	3	0			3		2
1 7000		•				•		2			-					0
1		6		0	0	0	0	0	0	0	0			-		-
2000		-		-	-	-	2.	2.	2.	2	2			3		3
		-		-	-	-	2.	2.	2	2	2			3		3.
141		2		3	3	3	*		*		;			3		3
		*		4.	5	3	3	2	5	*	0			9		
3000		-			8	8	*	8	8	8				6		6
1		-			6	6	6	6	6	6	0			0		0
7 2000		-		0	•	4	10	2	5	3	•					;
		-		33		4	3	5	5	30	9			9		•
1500				0	-	7	6	6	6	.6	0			:		:
		4			3	00	6	6	6	0	0			-		
1 100				0	0	0	2			3	;			-		
		2			0	0	2		3	3.	;					
8 Al		3			0	0	5	3	3		;					
		5		6	-	-	2	3.	3	4	*			8		
9		5			-	-	2	3	3		*			8		
		5		6	-	-	2.		3	*	3			8		8
111		8		6	-	-		3	3	;	3			6		
		5		0	-	-			3	3	0.56			6		
300				6	:	91.3		3.	•		2			•		
					-		93.1	93.5		;	0.56			6		0
١٨١		5			-	-	-			;	3			6	9.	0

TOTAL NUMBER OF OBSERVATIONS

480

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

73-76

00 MAM

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)	0 1 % 2 91/9 2 % 2 % 2 1 2 % 1 2 % 1 2	55.7 55.7 56.5 56.5 56.5 56.5 57.3 57.3 57.3	5.7 55.7 56.5 56.5 56.5 57.3 57.3 5.7 55.7 56.5 56.5 56.5 56.5	56.5 56.5 57.3 57.3 57.3 58.1 58.1 58.	60.5 60.5 61.3 61.3 61.3 60.5 60.5 61.3 61.3 61.3	64.5 64.5 65.3 65.3 65.3 66.1 66.1 66.1 6	.8 75.8 76.6 76.6 76.6 77.4 77.4 .8 79.8 81.5 81.5 81.5 82.3 82.3	.8 79.8 81.5 81.5 81.9 82.3 82.3 82. .7 80.7 82.3 82.3 83.1 83.9 83.9 83.	85.5 85.5 87.1 87.1 88.7 89.5 89.5 89.5 8	87.1 87.1 89.5 89.5 91.1 91.9 91.9 91.	88.7 88.7 91.9 91.9 93.6 95.2 95.2 95.2 9	9.5 89.5 94.4 94.4 96.0 97.6 97.5 97.6	.3 90.3 95.2 95.2 96.8 98.4 98.4 98.	90.3 90.3 95.2 95.2 96.8 99.2 99.2 99.2	.3 90.3 95.2 95.2 96.8 99.2 99.2 99.21 .3 90.3 95.2 95.2 96.8 99.2 99.2 99.21	.3 90.3 95.2 95.2 96.8 99.2 99.2 99.21 .3 90.3 95.2 95.2 96.8 99.2 99.2 99.21	7 90.3 90.3 95.2 95.2 96.8 99.2 99.2 99.2100.0
	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	3.2 54.0 54.0	3.2 54.0 54.0	5.7 56.5 56.5	8.1 58.9 58.	5.3 66.1	7.4 78.2 78.2 7	8.2 79.0 79.	3.1 63.9 83.	3.9 84.1	5.5 87.1 87	5.5 87.1	5.5 87.1 87.1	5.5 87.1 87.1	5.5 87.1 87.1	5.5 87.1 87.1	5.5 87.1 87.1 8
	9 11	.4 53.2 53.	.4 53.2 53.	.8 55.7 55.7	.3 58.1 58.	.5 62.1 62.1	.6 75.8 76.	.6 75.8 76.6	.0 78.2	0 79.0 82.3	.0 79.0 83.1 8 79.8 83.9	8 79.8 83.9	8 79.8 83.9	.8 79.8 83.9	.8 79.8 83.	.8 79.8 83.9	.8 79.8 83.9
CEILING	(FEET) 2 10	NO	18000 52	12000 53	10000	8000 63	ON		3500 73	s o	1800 75	1200 75	20 10	700 75	s in	300 75	en,

TOTAL NUMBER OF OBSERVATIONS

124

*

SOWS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87501 STATION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03 HOURS (1 S T) MAM

3880

CEILING							VISIA	BILITY (STA	VISIBILITY (STATUTE MILES	(S3						
(FEET)	2	٨١	\$ 41	4	6 11	≥ 2%	7	¥۱ کا	VI 74	71	% Al	* Al	VI Z	≥ 5/16	N N	O Al
NO CEILING	_	100.0100.001	00.00	00.00	10.00	00.00	00.00	00.00	0000	0000	100.0	100.0	0.001	0.001	0.00	00.00
₹ 20000	100.0	100.0100.010	00.00	00.00	00.00	00.00	00.00	00.00	0.00	0000	100.0	0001	0.001	100.0	0000	00.00
V 18000	1000	100.0100.010	0000	00.00	000	00	00.00	00.00	0000	000	000	000	000	000	000	000
000	000	000000000000000000000000000000000000000	000	2000	000	000		000			000	000	000	000	000	
12000	100.0	100.0100.010	00.00	00.00	0000	00.01	00.00	000	00.00	0000	100.0	100	100	100.00	000	00
10000	100.0	100.0100.001	00.00	00.01	00.00	00.00		00.00	0.00	0000	100.0	100.0	100.0	100.001	0.00	00.00
000	100.0	100.0100.010	00.00	00.00	10000	00.00	00.00	00.00	100.00	100.0	100.0	100.0	100.0	100.00	00.00	0000
	100.0	100.0100.010	00.00	00.00	00.00	00.00	100001	00.00	0.001	0.001	100	_	0.001	100.0	0.00	0000
7000	100.0	100.0010.001	00.00	00.01	100.00	00.00	00.00	00.00	100.00	100.0	100.0	100.0	0.001	100.0	00.00	00
1	100.0	100.0100.010	00.00	10.00	10.00	00.00	10.00	00.00	00.00	0.001	1000	-	0.001	100.00	0.001	00.0
2000	100.0	100.0100.010	00.00	00.01	100.001	00.00		00.00	100.00	100.0	100.0	100.0	100.0	100.00	00.00	00.00
1	100.0	100.001	00.00	00.00		00.00	0000	00.00	0.001	0000	100	100.0	0.001	•	0.00	000
1 1	100.0	100.00100.001	00.00	00.01	10.00	100.001	0000	100.001	100.00	.00	100.0	10000	100.0	100.00	00.00	00.00
1	100.0	100.0100.001	00.00	00.00		00.01	100.01	100.001	0.001	00	100.0	-	100.0	10000	0000	000
3000	100.0	100.0100.001	00.00	00.00	100.001	100.001	00.00	100.00	100.00	100.0	100.0	100.0	d	10000	00.001	0000
	100.0	100.0100.010	00.00	00.00	100.001	00.01	00.00	00.00	0.00	001	100.0	100.0	0.001		0.001	00.00
1 2000	100.0	100.0010.001	00.00	100.00	100.01	00.00	00.00	100.001	100.00	100	-	-	100.0	100.00	100.00	00.00
	100.0	100.0010.001	0.00	10.00	10.001	00.01	00.00	100.001	0.001	001		100.0	100.0		0.001	000
1500	100.0	100.0010.001	00.00	100.00	100.001	00.00	00.00	100.001	100.00	1000	100.0	100.0	100.0	100.0	00001	00.00
1	100.0	100.0100.001	00.00	10.00	10.00	00.00	00.00	00.00	0.001	0000	100.0		-	100.01	0000	0.001
1 100	100.0	100.0100.010	00.00	100.01	100.001	00.00	00.00	00,00	100.00	100.0	100.0	100.0	100.0	100.0	100.001	00.00
	100.0	100.0010.001	0000	0.00	10.001	00.00	10.00	00.00	0.001	0.001	100.0	•	100.0		0.001	000
8 1	100.0	100.0100.010	00.00	100.00	100.001	00.00	00.00	00.00	100.001	100.0	100.0	100.0	-	100.00	00.00	000
	100.0	100.0100.010	00.00	0.00	100.001	00.00	10.00	00.00	100.00	0.001	100.0	001	4	10000	0.001	00.00
8	100.0	100.0100.010	00.00	00.00	100.001	00.00	00.00	00.00	100.00	100.0	100.0	-	100.0	100.0	00.00	000
	100.0	100.01100.010	0000	0.00	10.00	00.00	10.00	00.00	0.001	10000	100.0	10000	0.001	100.0	0.001	00.00
1 1	100.0	100.0100.010	00.00	00.00	00.00	00.00	00.00	00.00	0.001	100.0	100.0	1000	1000	100.0	0000	00.00
88	1000	100.0100.010	0000	00.00	0000	00.00	0000	000	0.00	0.00	100	0.001	0.00	000	000	00.00
-	0.001	100.00100.001	0.00	000	000	2000	0000	000	0.00	000	200	2004	200	000		
80	100	100.0100.010	0000	00.00	00.00	000	0000	00	000	0000	100	1000	100	1000	000	000
1															1	

TOTAL NUMBER OF OBSERVATIONS

SMOS

DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

87601 STATION

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0.6 HOURS (1.5.7.) MAY

8448

	× × × × × × × × × × × × × × × × × × ×	9 58.9 58.9 58.9 58.9 58.9	2.1 62.1 62.1 62.1	2.1 62.1 62.1 62.1 6	62,1 62,1 62,1 62,1	5.3 65.3 65.3 65.3 6	1 00.1 06.1 66.1	67.7 67.7 67.7 67.7 6	68.6 68.6 68.6 68.	73.4 73.4 73.4 73.4 7	T 4.17 4.77 4.77 4 77.4 7	8 7.08 7.08 7.08 0.7	0 79.0 80.7 80.7 80.	81.5 83.1 83.1 83.1 8	82.3 83.9 83.9 83.9 8	83.1 84.7 84.7 84.7	87.1 88.7 88.7 88.7 8	89.5 91.1 91.1 91.1 9	91.1 91.1 91.1 9	91.9 93.6 93.6 93.6	91.9 93.6 93.6 93.6 9	92.7 96.0 96.0 96.0 9	92.7 96.0 96.0 96.0 9	92.7 96.0 96.0 96.0	92.7 97.6 97.6 97.6 9	2.7 97.6 97.6 97.6	9.2 99.2 99.21	2.7 99.2 99.2 99.21	9.2 99.2	. 7 99.2 99.2 99.21	7 92.7 99.2 99.2 99.2100.0	012.46 2066 70.66 10
ILES)	Ā	58.1 5	62.1	62.1	0	65.3		67.7	9.89	73.4	77.4	19.0	19.0	81,5	82.3	83.1	87.1	89.5	89.58	91.9	91.9	92.7	92.7	92.7	92.7	92.7		. 7			92.7 9	72.1
VISIBILITY (STATUTE MILES)	VI 7.	58.1	61.	61.	61.	54.	69	.99	.99	71.	75.	77.	77.	79.	80.	-	85.	-	1 87.1	87.	87	8	•	*	•	8		88.7	88.7	88.7	88.7	1.00
SIBILITY (S	۷۱ %	58.1	61.	61.	61.	64.		.09	.99	71.	75.	-	1	79.	80.	:	2			87.	9 87.	88.	88.		88.		88		88	. 88	. 88	200
>	7	57.3	61.	61.	61.	54.	0	.99	0	71.	75.	77.	77.	79.	80.	81.	00	00	87.	87.	87.	88.	88.		88.	00	98.	88.			88.	TO .
	2 2%	56.5	00	•09	•0 9	63	94.	65.	.99	2	(5)	76.	16.6	79.		19.	50		94.	20	90	\$	20	00	85.		0		25.0	82.	858	000
	٨١	56.5	60.	.09	9	63.		65.	.99	7.	75.	2	76.	79.	.64	79.	83.1		84.		84.	30	5		85.	85.5	5	85.5	_	00		82.5
	1	53.	5	57.	80	.09	61.3	62.	62.	67.	71.	~	72.	74.	75	75.0	-	-	19.0	10	79.		19.0	-	79.	-	-	-	6	-	-	0.41
	8 41	53.2	57.	25	57.		19		62.	67.	10.	71.	=	73.	14.		76.	78	78	78.	78.	78.		78.	78.			78		.8		. 3
	٨١	53.2	56.5	56.5	56.5	59.7	60.5	61.3	62.	99	68	70.	70.	71.	71.	71.	74.	75.	75.	73.	75.	75.	75.	75.	75.	75.	75.	75.	75.8	75.8	75.8	13.0
	2	53.2	56.5	50.5	56.5	59.7	60.5	61.3	62.1	56.1	9.89	70.2	10.2	70.2	70.2	70.2	72.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	*	3 . 7
CEILING	(FEET)	NO CEILING	18000	≥ 16000	14000	≥ 12000	10000	0006 A	8000	7000	0009	2000	4500	141	3500	3000	2500	2000		1500		1000		00 AI		8		111		اد د د	8	

TOTAL NUMBER OF OBSERVATIONS

124

H ...

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601 STATION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

09 HOURS (1.5.T.) MAY

200

CEILING	DN.									VISIB	ILITY (S	VISIBILITY (STATUTE MILES)	MILES)									
E	6	5	۸I	A)	٨١	•	ε Al	1 2%	AI .	7	۲۱ ۶۲	Y1 7/2	AI 3	=	NI %	VI X		Z.	2 5/16	AI N		O AI
NO CEILING	DOOD STEEL																_				-	
VI VI 16000	0000																					
Y 14000	0000																					
VIVI	9000																					
AI AI	2000																					
AI AI	9009																					
AIAI	4500																					
MAIN	3000	100.0100.0100.	100.0	0100	0100	100	00.00	100	0100	100	000	0 100.	010	0.0	000	100	010	000	000	100.0100.0100.01	010	00
AI /	2500	100.010	100.0	1000	010	100	000	100	0100	100	00.00	100	010	0.0	00.00	100	010	0.0	00.00	0010	0010	0.0
		100.0100.0100.	100.0			0	00.00	100	0010	000	00.00	0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01	010	0.0	00	100	010	0.0	00	0100.0100.0100	010	000
111	1500	100.0100.0100.	100.0			100	00.00	100	010	10.	00.00	0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.	010	10.0	00.00	100	010	0.0010.0010.0010.	00.0	100	0010	0.0
VIVI	1200	100.0100.0100.	100.00			000	0000	100	0100	00	000	$0100 \cdot 0100 \cdot 0100 \cdot 0100 \cdot 0100	000	000	000	100	0010	00	000	0100.0100.01	0000	00
ALAI	88	100.0100.0100.	100.0			0.0	0000	100	010	0.0	00.00	0100.01	010	0.0	00.00	100	010	0.0	000	001	010	000
1		100.0100.0100.	100.0	0100	0100	10.0	0000	100	0100	001	00.00	0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100	010	0.0	00.00	100	010	0100.0100.0100.0100.0	00	0010	010	000
	88	100.0100.0100.	100.0100.0100.	100	010	0.0	0000	100	0100	00	00.00	0100.01000.0100.0	010	000	00.00	100	010	0.0	000	100.00	0000	000
ALAI	88	100.0100.0100.	100.01	1000	0100	100	0000	100	0100	001	00.00	0100.01	010	0.0	00.00	100	010	000	000	100	0010	00000
ALAI	80	100.0100.0100.0100.0100.0100.0100.0100	100.0	100	0100	00	0000	100	0100	0.01	00.00	0100.0100.0100.0100.0100.0100.0100.010	010	0.0	00.00	100	010	0.0	00.00	100	010	00

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MAY

NO CEILING 34. 7 35.5 35.5 35.5 35.5 36.3	CEILING							VISI	VISIBILITY (ST.	(STATUTE MILES)	ES)						
26.11 No. 34.7 35.9 37.9 37.9 37.9 37.9 36.7 38.7 38.7 38.7 38.7 38.7 38.7 38.7 38	(FEET)		1	8	A I		1	7.00	1	-	-	1			1		2.80
18000 36.7 38.7 38.7 38.7 38.7 38.7 38.7 39.5 39.5 39.5 39.5 39.5 39.5 39.5 39.5	NO CEILING	34.7	200	35.5	200	Si.	3.50	9 %	0 80	0 00	\$ a	0 00	0 00	0 00	-0		
1000 4.0 36.7 39.5 39.5 39.5 39.5 5 40.3 40.3 40.3 40.3 40.3 40.9 40.9 40.9 40.1 41.1 41.1 41.1 41.1 41.1 41.1 41.1	00001	37.9	00	38.7	00	8	oc	3 0	0	6	6	6	6	5	0		40.3
10000 40.3 41.1 41.1 41.1 41.1 41.1 41.1 41.1 41		36.7	6	39.5	6	6	6	0	0	0	·	0	0	0	-		41.1
13000 41.9 42.7 42.7 42.7 42.7 42.7 42.7 43.6 43.6 43.6 43.6 44.6 44.4 44.4 44.8 44.8 44.8 44.8 44		40.3	-	41.1	-	-	-	-	-	•	-	-	-		2		
10000 46.0 46.0 46.0 46.0 46.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0 48.4		41.9	5	45.7	5	5.	2.	3		60	3	3	3.		4.		
8000 47.6 48.4 48.6 48.1 58.2 50.5 60.5 <th< td=""><td>1</td><td>46.0</td><td>.0</td><td>46.8</td><td>0.</td><td>. 9</td><td>9</td><td>1.</td><td></td><td></td><td></td><td></td><td></td><td></td><td>00</td><td></td><td></td></th<>	1	46.0	.0	46.8	0.	. 9	9	1.							00		
56.5 57.3 57.3 57.3 57.3 57.3 57.3 58.1 58.1 58.1 58.1 58.1 58.1 58.1 58.1		47.6	8	48.4		00	w	6	6	6	6	6	6		0		
7000 56.1 56.9 73.7 153.7 153.7 153.7 153.7 150.5 150.	1	56.5		57.3			2	8	æ (8	8.	20 0	8	•	8	•	•
2500 57.7 53.4 57.4 65.4 66.9 66.9 65.9 67.7 67.7 68.6 69.4 69.4 69.4 69.4 70.2 70.2 70.2 70.2 70.2 70.2 62.9 67.7 69.6 69.4 69.4 69.4 69.4 69.4 70.2 70.2 70.2 70.2 70.2 70.2 70.2 70.2	1	26.1	0	27.1				0	0	3	0	0	0		-	•	
2500 60.5 65.3 66.7 66.7 66.9 66.9 67.7 67.7 68.6 69.4 69.4 69.4 69.4 77.2 770		27.1	-	1.70				21	,,	90	n 0	•	0 0		:		
2500 62.9 67.7 69.4 69.4 69.4 70.7 71.8 71.8 71.8 71.8 71.8 71.8 72.6 72.6 72.6 72.8 72.6 72.7 73.4 77.4 77.4 77.4 77.4 71.8 71.8 71.8 71.8 71.8 71.8 72.6 72.6 72.7 73.4 77.4 77.4 77.4 77.4 77.4 77.4 77	1	000	0	000	0	0	0	-		0	6			•	0		
250 63.7 68.6 71.0 71.0 71.0 71.8 71.0 71.8 71.8 71.8 71.8 71.8 71.8 71.8 71.8		60.5	0	000		0	:	-							0		
3500 63.7 58.6 71.0 71.0 71.0 71.0 71.8 71.8 72.6 73.4 73.4 73.4 73.4 74.2 74.2 74.2 74.2 3500 67.7 73.4 77.4 77.4 77.4 77.4 77.4 77.4 7		65.0	-	4.69	6	6	0.	0	0	-	-	-	-		2		
2500 67.7 73.4 77.4 77.4 77.4 78.2 78.2 79.0 79.8 79.8 79.8 79.8 80.7 80.7 80.7 80. 2500 67.7 73.4 77.4 77.4 77.4 78.2 78.2 79.0 79.8 79.8 79.8 79.8 80.7 80.7 80.7 80.7 80.7 80.7 80.7 80		63.7	30	11.0	-	-		-	:	2.	3.	3	3.		4	•	
2500 67.7 73.4 77.4 77.4 77.4 77.4 78.2 79.0 79.8 79.8 79.8 79.8 80.7 80.7 80.7 80.7 20.0 70.2 75.8 81.5 81.5 83.1 83.1 84.7 84.7 85.5 86.3 87.1 87.1 87.1 87.9 87.9 87.9 87.9 87.9 87.0 70.2 75.8 81.5 81.5 83.1 83.1 84.7 84.7 84.7 85.5 86.3 87.1 87.1 87.1 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87.9		67.7	3	77.4	-	-	-			6	6	6	6		0		
70.2 75.8 81.5 81.5 83.1 83.1 84.7 84.7 85.5 86.3 87.1 87.1 87.1 87.9 87.9 87.9 87.9 1800 70.2 75.8 81.5 81.5 83.1 83.1 84.7 84.7 85.5 86.3 87.1 87.1 87.1 87.1 87.9 87.9 87.9 87.0 84.7 84.7 84.7 86.3 88.7 88.7 89.5 90.3 91.1 91.1 91.1 91.1 91.9 91.9 91.9 91	1	67.7	3	77.4	2	-	-	80	8	6	6	5	6		0		
1500 70.2 75.8 81.5 81.5 83.1 83.1 84.7 84.7 86.3 87.1 87.1 87.1 87.1 87.1 87.9 87.9 87.9 87.9 87.0 1500 72.6 79.0 84.7 84.7 84.7 86.3 88.7 89.5 90.3 91.1 91.1 91.1 91.1 91.9 91.9 91.9 91		70.2	3	81.5	-	3	100	*		m,	•	-	-		-		
1200 72.6 79.0 84.7 84.7 86.3 86.3 88.7 89.5 90.3 91.1 91.1 91.1 91.9 91.9 91.9 91.9 91	1	70.2	5	81.5	-	3	6	*		3	9	-	-		-		
72.6 79.0 84.7 84.7 86.3 86.3 88.7 89.5 90.3 91.1 91.1 91.1 91.1 91.9 92.7 92.7 92. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.3 91.1 91.9 91.9 91.9 92.7 92.7 92. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 96.8 96.8 96.8 96.9 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 96.8 97.6 98.4 98.8 97.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 96.8 97.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 20. 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 89.8 97.5 90.3 91.1 92.1 90.0 91.0 91.0 91.0 91.0 91.0 91.0 91		72.6	6	84.7	4.	.0	9		8	6	0	:	-		-		
72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 91.9 91.9 91.9 92.7 92.7 92.7 92. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 95.2 96.0 96.8 96. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 95.2 96.0 96.8 96. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 97.6 98.4 99.2 99. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 97.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 300 72.6 79.0 85.5 85.5 87.1 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.000. 300 72.6 79.0 85.5 87.1 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.5 100.000. 300 72.6 79.0 85.5 87.1 87.1 87.1 89.5 89.5 90.3 91.1 92.		72.6	5	84.7	*	9	9	8	8	6	0	-	-		-		
72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 91.9 91.9 91.9 92.7 92.7 92.7 92.7 92.8 80.0 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 95.2 96.0 96.8 96.0 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 96.8 97.6 98.4 98.0 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 96.4 99.2 100.0100.00 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100.00 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100.00 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100.00 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100.00 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100.00 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100.00 00.00 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100.00 00.00 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100.00 00.		72.6	6	85.5	3	1.	-	6	6	0	-	-	-		2.		
200 72.6 79.0 85.5 85.5 87.1 89.5 89.5 90.3 91.1 92.7 93.6 95.2 96.0 96.8 96.0 72.6 79.0 85.5 85.5 87.1 87.1 89.5 90.3 91.1 92.7 93.6 96.8 97.6 98.4 98.9 500 72.6 79.0 85.5 85.5 87.1 87.1 89.5 90.3 91.1 92.7 93.6 97.6 98.4 99.2 99.2 300 72.6 79.0 85.5 85.5 87.1 87.1 89.5 90.3 91.1 92.7 93.6 98.4 99.2 90.0 300 72.6 79.0 85.5 87.1 87.1 89.5 90.3 91.1 92.7 93.6 98.4 99.2 91.00 100 72.6 79.0 85.5 87.1 87.1 89.5 90.3 91.1 92.7 93.6 98.4		72.6	6	85.5	5		-	6	6	0	-	-	-		2		
72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 96.8 97.6 98.4 98. 72.6 79.0 65.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 96.8 97.6 98.4 99.2 99. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100.		72.6	6	85.5	5			6	6	0	-	3	3		•		•
200 72.6 79.0 65.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 96.8 97.6 98.4 99.2 99.4 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 97.6 98.4 99.2 100.0100. 200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100. 200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0100.		72.6	6	85.5				6	6	0	-	~	3				
200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 97.6 98.4 99.2 99.2 400. 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0 100. 200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0 100. 100 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0 100. 0 72.6 79.0 85.5 85.5 87.1 87.1 89.5 90.3 91.1 92.7 93.6 98.4 99.2 100.0 100.		72.6	6	85.5	5	-	-	6	6	0		3.	3				
72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 100 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 0 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100.		72.6	6	85.5	5		1.	6	6	0		2	3				
200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 100 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 201 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100.		72.6		85.5	5		-		6	0		2	9				
200 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100. 100 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100.		72.6		85.5	5	87.1				0		2			•		
100 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.6 98.4 99.2100.0100.		12.6		85.3	3	8/01		6		0		2	3	•		•	
0 72.6 79.0 85.5 85.5 87.1 87.1 89.5 89.5 90.3 91.1 92.7 93.5 96.4 99.2 100.0100.		72.6		85.5	· ·	000	-	6		•					6		
		14.0	0	82.5	•		:	6				2	0			•	

124

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

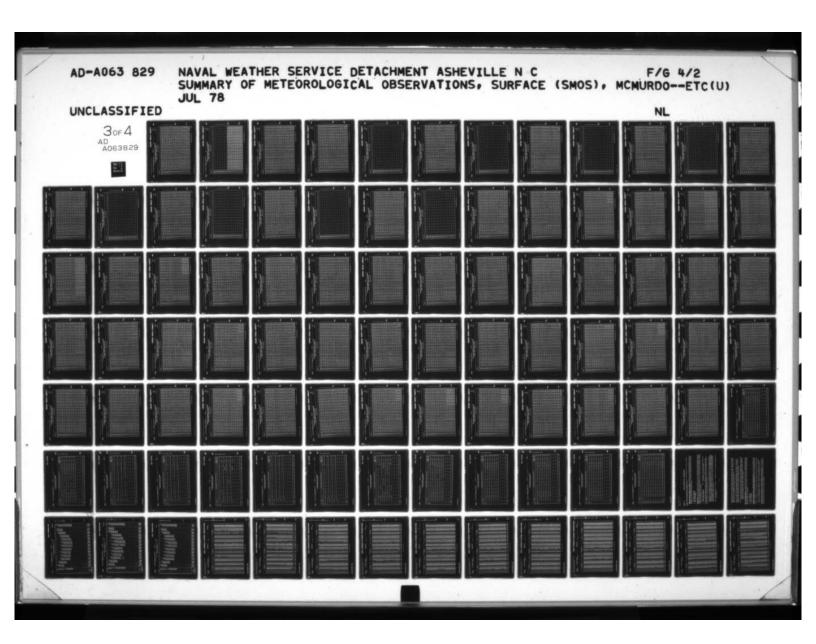
15 HOURS (LST) MAY

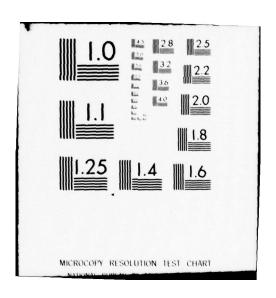
- E E E

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)	VISIBILITY (STATUTE MILES)	0.100.0100.0100.0100.0100.0100.0100.01	100.010	100.0100.0100.0100.0100.0100.0100.0100	100.010	100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01	100.0100.0100.	100.0100.0100.	100.0100.0100.	100.0100.0100.	100.0100.0100.	100.010	100.0100.0100.	100.01000.01	100.010	100.0100.0100.	100.010
		O	001	14000	0000	8000 7000 100	8000 100 8000 100	4500 100	3500 100	2500 100	1800 100	1200 100	800 100 100	700 100	500 100 400 100	300 100 200 100	0 100

TOTAL NUMBER OF OBSERVATIONS

900





MC MURDO STATIONS ANTARCTICA

87601 STATION

0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

L S 1) SHOW MAY

0

0

0

TOTAL NUMBER OF OBSERVATIONS

124

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) MC MURDO STATION, ANTARCTICA

87601

21 MAY

(FEET)	2 1	AI AI	AI AI	-	7	N N	2 2%		VISII	1 1/2 (S	VISIBILITY (STATUTE MILES)	IN IN	-	* IV	₽ Al	AI X	91/8 4			3 AI
NO CEILING																				
18000 18000 18000																				
≥ 14000 ≥ 12000																				
2 10000 2 4 9000																				
7000 7000																and the second second				
0009 A																				
Y 1 4500																				
3300	100	100.0100.010	0010	.010	0.0	100	0010	010	0.01	00.00	100	0100	.010	0.0	0.00	01		0.0100	0.0100.0100	0.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	100	100.0100.0100	2	010	00	100	0100.0100.0100.0100.0100.0100.0100.0100	010	0.0	000	0100.0100.0100	0100	010.	0.0100	0100.010	001	•	0010	0100.0010.	0100
VI VI 0081	100	100.0100.0100	00	010	0.0	100	0100	010	0.0	000	0100.01	0100	010	000	0100.0	000	• •	0100	0100.00	0100
VIV 080	100	100.0100.010	-	010	0.0	000	0100	010	0.0	00.0	100	0100	010	0.0	0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01	100		0100	0100.0	0100.0100.0
1	100	100.0100.010	-	010	0.0	00	0100	010	0.0	000	100	0100	010	000	0000	100		100.0100	0000	0010-00
1	100	100.0100.0100	-	010	0.0	000	0100	010	0.0	000	000	0100	010	0.0	0100.01	100		00.0100	0000	00.0100.00
8 8 8 8	100	100.0100.010	00	010	0.0	100	0100.0100.0100	0100	0.0	0100	0010	0100	010	0.0	0100.0100.0100.0100.0100.0100.0100.0100.01	00		00.0100	0000	00.0100
8 8 1 A I A	1000	100.0100.0100	0100	010	00.00	100	100.0100.0100	0100	0.0	000	0100.0100.010	0010	010	000	00.0100.0100.01	00	00	100.0100	00.00	0.0100.0100.0
80	100	0100.010	0100	00100	0000	00	00100	010	0.0100	000	0000	0010	010	0.0	0100.0	000	-	00100	0.0100.010	0.0000.00000

0

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0

TOTAL NUMBER OF OBSERVATIONS

MC MURDO STATION, ANTARCTICA

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

ALL HOURS (1.5.T.) MAM

> PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

No Celling 40.0 40.4 40.6 4	CEILING							VISIA	VISIBILITY (STATUTE MILES)	ATUTE MILI	is)						
46.6 47.2 47.4 46.6 48.6 48.6 48.6 48.6 48.6 50.0 50.0 50.0 50.4 50.0 50.4 45.6 47.2 47.2 47.2 47.2 47.4 46.6 48.6 49.4 49.4 49.4 49.4 49.4 49.4 49.4 49					AI						ĀJ				5	VI 24	٨١
70000 46.8 4 7.2 47.4 47.4 48.4 48.4 49.4 49.4 49.4 50.0 50.0 50.0 50.4 50.4 50.0 50.00 46.8 4 7.2 47.4 48.4 48.4 48.4 49.4 49.4 49.4 50.4 50.4 50.8 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0	NO CEILING				9	-	1	8	8	80	6	6		6	. 6	6	
10000 47.6 48.6 48.6 48.6 49.6 50.6 50.6 50.6 51.6	> 20000				-	8	•	.6	6	6	0	0		0			50.8
1000 10 10 10 10 10 10	7 18000				8	6	0	0	0	0	-	:		:	-	-	51.8
10000 46.8 49.2 49.6 49.6 59.6 59.6 51.6 51.6 51.6 51.6 52.2 53.8 53.8 53.8 55.6 55.6 55.0 10000 50.4 50.8 51.2 52.2 52.2 52.2 53.8 53.8 53.8 53.8 55.8 55.8 55.8 55.8	14000					6	6	0	0	0	=	:		-	3		52.2
10000 50.4 50.8 51.2 51.2 52.2 52.2 53.2 53.2 53.2 53.8 53.8 53.8 53.8 54.2 54.5 55.9 57.8 59.8 57.8 57.8 57.8 57.8 57.8 57.8 57.8 57					6	0	0	-	:	-	2	2		7	2.	2.	
10000 53.0 53.4 53.8 54.8 54.8 55.8 55.8 55.8 56.4 56.4 56.4 56.4 56.6 56.8 57.8			0	-	-	2.	2	3						*	;		24.6
94.2 54.6 55.0 55.0 56.0 57.0 <th< th=""><th></th><th>53.0</th><th>3</th><th>3</th><th></th><th>*</th><th>*</th><th>5</th><th>5</th><th>5</th><th>9</th><th>0</th><th></th><th>0</th><th></th><th>-</th><th>57.2</th></th<>		53.0	3	3		*	*	5	5	5	9	0		0		-	57.2
3000 57.6 58.4 59.0 59.0 60.0 60.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 61.0 62.2 65.2 76.2 <th< td=""><th></th><td>54.2</td><td></td><td></td><td>•</td><td>;</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>8</td><td>8</td><td>58.4</td><td>58.6</td></th<>		54.2			•	;		-	-	-	-	-		8	8	58.4	58.6
7000 60.4 61.2 62.4 62.4 63.4 63.4 64.4 64.4 65.2 65.2 65.2 65.2 65.6 65.6 65.0 64.4 65.0 64.4 65.0 67.5 68.8 68.8 68.8 67.5 67.5 68.8 68.8 67.5 67.5 68.8 68.8 74.8 74.8 74.8 74.8 74.8 74.8 74.8 7	1	57.8				0	0	-	:	-	-	-		7	2.		62.6
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73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.6 92.6 93.4 95.4 95.0 73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.6 92.6 93.4 95.4 95. 700 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.6 92.8 93.5 96.6 96. 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.6 92.8 93.5 96.6 97. 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98. 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98. 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98. 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98. 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0					3	;	4	-	-		:	:		9	;	;	;
73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.6 92.6 93.4 95.4 95.4 95.0 73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.6 92.8 93.6 96.6 96.8 97.8 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.6 92.8 93.5 96.8 97.8 97.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0			17.4		2		4	-	8		-	2.			;		94.6
73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.6 92.8 93.6 96.6 97. 500 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.6 92.8 93.6 96.8 97. 500 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98. 500 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0			77.4		2	;	*	-		8	-	5		5	3	3	0.96
500 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.6 92.8 93.6 96.8 97.6 500 73.4 77.4 81.6 62.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 300 73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0			17.4	-	2.	4	4	-	8	8	-	2.		.0	9		97.2
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200 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98. 200 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98. 100 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.			17.4	-	2	;	*	-	8		-					98.8	99.8
200 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 98.0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0 0 73.4 77.4 81.6 82.2 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.0		100	17.4	-	5		4.	:		8	-	3		8	8	•	8.66
100 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.				-	2			-	8.	8	-	3		8	80	8	99.8
0 73.4 77.4 81.6 82.2 84.8 84.8 87.4 88.0 88.2 91.8 93.2 94.0 98.0 98.				:	. 2	*	. 49	1	8	8	-	3.		8			0.001
			17.4	-	5	;		-	8	8	-	3	•	8	9	8.86	0000

TOTAL NUMBER OF OBSERVATIONS

200

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87601

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

73-76

JUN 000 000

		0	49.6	52.1	52.1	53.8	53.8	55.5	67.2	10.6	15.6	82.4	86.4	86.0	86.6	86.6	88.2	88.2	89.1	89.1	93.3	94.1	95.8	97.5	98.3	98.3	000	000	000
00		M M	9.65	52.1	1.29	53.8	53.8	59.5	2.19	10.6			4.70		86.6				1.68	89.1	73.3	94.1	95.8		61.5	97.5	.31	.3	98.31
,		≥ 5/16	9.69	-		53.8		55.5	2.	9.0	2.6	5.4	86.4	2			.2	.2	-	-		94.1	00		97.3	7.5	7.5	97.5	97.5
		£ Al	9.6		52.1	53.8	53.8	55.5	.2	9.	9.		86.4	2	9.9	86.6	4	4.	.2	8.2		93.3	-	95.0	8.56		92.8	00	95.8
		*	20.0	52.1	52.1	53.8			2.19		9.		86.48			0	4	*	.2	2.	0	-	9.	9.	35.4	\$. 26	45.4	4.26	45.4
		* 11	9.69	2.1	52.1	53.8	9	.5	2.19	0.0	9.5	3	200				0.	0	4	-	. 0	8.06	0		9.16	9.1	1.6		91.0
RENCE	6	-	9.	2.1	.1	53.8		5.5	7.2	9.	9.6	5.4	***	4	86.6	9.9	9.9	9.9	1.4	1.4	1.6	6.68	6.6	-		0.8	0.8	8.0	90.8
CCUR	TUTE MILES	7 7	1 67	9 6	51.3	52.9	6	9.	4.0	8	8.4	0		7 0	3.5	3.2	.2	3.2	0.4	0.4	2.7	85.7	5.7	5.7	9.9	0	9.	9.9	86.6
ACY OF OCCUR	VISIBILITY (STATUTE MILES	¥1 ¥	1000	51.3	51.3	52.9		34.6	4.0		. 8	0		10	83.2	1	3.2	_	4.0	84.0	2.	85.7	5.7	5.7	2.7	85.7	85.7	85.7	85.7
JENCY Y OB	VISIB	7 7	48.7		51.3	52.9		54.6	*		74.8	0.6	0.00	200	33.2		83.2		*	84.0		85.7	5.7	5.7	85.7	85.7	85.7	85.7	85.7
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)		> 2%	48.4	:	51.3	52.9		•	2.0		13.1	17.3	2		-	0.1	80.7	0.0	1.5		5.2		2.4	4.2	5.4	5.4			82.4
ROW		6 VI	48.	-	51.3	52.9	2		65.6	20	73.1	77.3	20.00		80.7	80.7	80.7	1.09	81.5	91.5	5.70	82.4	N						82.4
ERCEN (F		*	4.84	51.3	51.3	52.9	52.9	54.6	9.59	68.9	72.3	74.8	71.3		77.3	. 3	77.3	•	2.	~	0.0	19.0	-	79.0	0.	0		0	79.0
•		\$ 41	48.7		:	52.9	IN				2	:	14.0	: 1	77.3	-	~	17.3	20	78.2	n 1	200	-	29.0	-	0	20.01	~	79.0
		o Al	47.9	0		52.1	2.	53.8	63.9	-	10.6	5	72.3	:	74.8	14.8	74.8	14.8	75.6	15.6		70.0	76.3	76.5	16.8	- 1		16.5	76.5
		2	45.4			48.7	48.7	50.4	58.8	62.2	63.9	9.50	02.0	7 50	63.6	65.6	65.6	9.59	4.99	4.99	4.00	4.99	3		4.99	- 1	4.99	4.90	4.00
	CEILING	(rec)	NO CEILING) 18000	14000	N 14000	00001	000	9008	≥ 7000	0009		1 4 500	3	3 28	2500	7 2000	9081	2 1500	1200	8	\$ 8	200	38	900	N 400		1 30	71 YI

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

100

5703 CEILING VERSUS VISIBILITY JAN 78

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATIONS ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03 5

CEILING							\$IA	VISIBILITY (STATUTE MILES)	ATUTE MIL	(53)						
(161)	0 1	, AI	S AI	7.1	1 3	≥ 2%	12.2	V 1%	¥1 Y	Ā	* 11	# Al	× Al	≥ 5/16	AI AI	0 1
NO CEILING																
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																
2 14000 2 12000																
2 10000 2 9000																
Y Y 8000																
0009 AI AI																
4500 4000																
3300																
2 2000																
V V 1800 0081 V																
VIVI 1200 1000																
88																
VIVI 88																
8 8 8 8																
8 8 1 A I A																
VIVI 80																

0

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0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

HC MURDE STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

90 200

M 80

20 26 25 24 20 20 20 20 20 20 20 20 20 20 20 20 20	CEILING						VISI	VISIBILITY (STATUTE MILES)	ATUTE MILE	ES)					
centuse 47.1 50.4 50.4 50.4 51.3 52.1 52.1 52.1 52.1 52.1 52.1 52.1 52.1	(FEET)		100				19112		-	-			3		٨١
70000 47.1 50.4 50.4 51.3 52.1 22.1 22.1 52.1 52.1 52.1 52.1 52.1		1.	0	51.3		2	2.			2.	2.	2	3	3.	53.
10000 47.1 50.4 51.3 52.1 52.9		7	0	51.3		2.	7			2	3	2	 3.		53.
14000 47.9 51.3 52.1 52.9 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8		-	-	2			2.			2.	2.		4	*	54.
140.00 49.6 53.8 54.6 55.5 56.3 56.3 56.3 56.3 56.3 56.3 56		-	2	2			3			3			9	•	56.
10000 49.6 54.6 55.5 56.3 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.1 57.2 50.5		6				6				. 9			8	20	58.
50.00 50.4 57.1 58.8 59.7 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5		6	5			7	-				-	-	 6		59.
9000 57.1 65.6 67.2 68.1 69.8 69.8 69.8 69.8 69.8 69.8 69.8 69.8	1	0	8			0	0	0		0	0	0	3	3.	63.
350.0 57.1 65.6 67.2 68.1 69.8 69.8 69.8 69.8 71.4 <t< td=""><td></td><td>-</td><td>6</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td></td><td>=</td><td>-</td><td>:</td><td>3</td><td></td><td>63.</td></t<>		-	6			-	-	-		=	-	:	3		63.
7000 58.0 67.2 68.9 69.8 71.4 71.4 71.4 71.4 72.3 72.3 72.3 74.0 74.8 74.8 74.8 74.8 74.8 74.8 74.8 74.8	1	-		8		6	6	6		6	6	6	2.	2	
5000 51.3 72.3 74.6 75.6 77.3 77.3 77.3 77.3 77.3 77.3 77.3 77		8				-	-	-		2.	2	2	 *	;	*
3000 61.3 72.3 74.6 77.5 77.3 77.3 77.3 77.3 77.3 60.7 80.7 80.7 80.7 82.4 83.2 83.2 8 4500 61.3 72.3 74.6 75.5 77.3 77.3 77.3 77.3 77.3 80.7 80.7 80.7 80.7 80.7 82.4 83.2 83.2 8 4500 62.2 74.0 76.5 77.3 79.8 79.8 77.3 77.3 77.3 80.7 84.0 84.0 84.0 84.0 85.7 85.4 83.2 83.2 83.2 83.2 83.2 83.2 83.2 83.2	1	8	8	6		-	1:	1		2	2.	2.			
4500 62.2 74.0 76.5 77.3 79.8 79.8 77.3 77.3 77.3 77.3 80.7 80.7 80.7 80.7 82.4 83.2 83.2 83.2 83.2 83.2 84.0 84.0 84.0 84.0 84.0 84.0 85.7 86.6 86.6 83.0 62.2 74.0 76.5 77.3 79.8 79.8 79.8 80.7 80.7 80.7 84.0 84.0 84.0 84.0 84.0 84.0 85.7 86.6 86.6 88.0 83.0 63.0 75.6 79.0 79.8 83.2 83.2 84.0 84.0 84.0 87.4 87.4 87.4 87.4 89.1 89.9 89.9 89.9 89.9 89.0 89.0 63.0 75.6 79.0 79.8 83.2 83.2 84.0 84.0 84.0 87.4 87.4 87.4 87.4 89.1 89.9 89.9 89.9 81.0 63.0 75.6 79.0 79.8 83.2 83.2 84.0 84.0 84.0 88.2 88.2 88.2 89.9 99.8 99.8 99.8 99.8		-		8		-	:			0	0	0		3	
25.0 62.2 74.0 76.5 77.3 79.8 79.8 80.7 80.7 84.0 84.0 84.0 85.7 86.6 86.6 86.0 83.0 85.7 86.6 86.6 86.6 86.0 84.0 84.0 85.7 86.6 86.6 86.0 86.0 84.0 84.0 85.7 86.6 86.6 86.0 86.0 84.0 84.0 84.0 85.7 86.6 86.6 86.0 86.0 87.0 87.0 87.0 87.1 87.1 87.1 87.1 87.1 87.1 87.1 87.1	1	-	*			1	-	1.		0	0	0		3	
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2300 63.0 75.6 79.0 79.8 83.2 83.2 84.0 84.0 84.0 88.2 88.2 88.2 89.9 90.8 90.8 91.6 91.6 91.0 63.0 75.6 79.0 79.8 83.2 83.2 84.0 84.0 84.0 88.2 88.2 88.2 89.9 90.8 90.8 90.8 91.6 91.6 91.0 63.0 75.6 79.0 79.8 83.2 83.2 83.2 84.0 84.0 84.0 88.2 88.2 88.2 89.9 90.8 90.8 90.8 91.6 91.0 63.0 75.6 79.0 79.8 83.2 83.2 83.2 84.0 84.0 88.2 88.2 88.2 89.9 91.6 91.6 91.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0		3					;	;		:	-	-			89.
2000 63.0 75.6 79.0 79.6 83.2 83.2 84.0 84.0 84.0 88.2 88.2 88.2 89.9 90.8 90.8 90.8 90.8 90.8 90.8 90.8	1	3				3	*	•				-			89.
1300 63.0 75.6 79.0 79.8 83.2 83.2 84.0 84.0 88.2 88.2 88.2 89.9 90.8 90.8 90.8 90.8 90.8 90.8 90.8		3				3.	;	:				8			90
1300 63.0 75.6 79.0 79.8 83.2 83.2 84.0 84.0 88.2 88.2 88.2 88.2 89.9 91.6 91.6 91.6 91.0 63.0 75.6 79.0 79.8 83.2 83.2 84.0 84.0 84.0 88.2 88.2 88.2 89.9 91.6 91.6 91.6 91.6 91.6 91.6 91.6 9	1					3	4			8	8	8			90.
1300 63.0 75.6 79.0 79.8 83.2 83.2 84.0 84.0 88.2 88.2 88.2 88.2 89.9 91.6 91.6 91.6 91.6 90.8 95.0 96.6 96.6 95.0 63.0 77.3 80.7 81.5 85.7 86.6 86.6 86.6 91.6 91.6 91.6 91.6 95.8 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5					3	6	;				8	8			91.
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400 63.0 77.3 80.7 81.5 85.7 85.6 86.6 86.6 91.6 92.4 92.4 96.6 98.3 98.3 30.0 63.0 77.3 80.7 81.5 85.7 85.7 86.6 86.6 91.6 92.4 92.4 92.4 96.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.7 86.6 86.6 91.6 92.4 92.4 92.4 96.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.7 86.6 86.6 91.6 92.4 92.4 92.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.7 86.6 86.6 91.6 92.4 92.4 92.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.6 86.6 86.6 91.6 92.4 92.4 96.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.6 86.6 86.6 91.6 92.4 92.4 92.6 96.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.7 85.6 86.6 86.6 91.6 92.4 92.4 92.4 95.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.7 85.6 86.6 86.6 91.6 91.6 92.4 92.4 95.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.7 85.6 86.6 86.6 91.6 91.6 92.4 92.4 95.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.7 85.6 86.6 86.6 91.6 91.6 92.4 92.4 95.6 98.3 99.2 10.0 63.0 77.3 80.7 81.5 85.7 85.7 85.6 86.6 86.6 91.6 91.6 92.4 92.4 95.6 98.3 99.2 10.0 93.0 77.3 80.7 81.5 85.7 85.7 85.6 86.6 86.6 91.6 91.6 92.4 92.4 96.6 98.3 99.2 10.0 93.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97		3	0	81.5			9	0		1.	2	2	98.3		98.
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0 63.0 77.3 50.7 81.5 85.7 85.6 86.6 86.6 91.6 92.4 92.4 96.6 98.3 99.21			-	-	85.7		•	6		91.6					66
		-		-	85.7					91.6		95.4			100

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

200

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601 STATION

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

60 NO.

CEILING VERSUS VISIBILITY

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AI AI

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2000

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1500

AI AI

120

AI AI

88

MINI

88

AI AI

88

AI AI

80

AI AI

88

AI AI

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING VERSUS VISIBILITY

12 SOL

CEILING							VISIA	BILITY (ST.	VISIBILITY (STATUTE MILES)	(\$3						
(FEET)	2	9 Al	\$ 1	7	8 1	2 2%	2 4	71 72	¥1 ¥	-	*	*	Z AI	2 5/16	N AI	٨١
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> 20000	46.7		53.3	53.3	;	24.5	55.8		3		3	55.8				
2 18000		-	53.3	3.		*		5		5	5	3	-	5.		55.8
14000	-		54.5		3	3	•		;		;	0		9		;
	0		58.3		6		0	0	0	0	0	8009	-	0		0
2 12000		.3	0.09		0	0	3	2	2	3	2.	~	~		•	
1	3	0	61.7	-	2.	2	*		5	3		3	:	4		:
141	*	0	65.5	65.3		63.3	5	0.69			5	65.0		5		5
		0	72.5		3.		3	5		5	2	-		3		-
38		1.	74.2		5					-	-	-				-
1			75.8	5	9	9	8	8		6	6	0	-	6		6
300		80	78.3		6		0	0	:		3	2	3	2.		3
		00	78.3	80	6	6	0	0		2.	2.	2	2.	2.		3
88		10	80.0	0	-	-			:		3	5	3	5		2
		5	80.0	0	-	-	*		:	30	2	5	5	5.		5.
300		2	82.5	2	*	*				8		œ		8		0
1		.2	82.5	2	4	. 4	9	0	:	8		8	8	8		8
500		~	82.5	·	3		-		-		6	6	6	6		6
		~	82.5	2	5	5	-			6	6	6	6	6		
1500		7.	82.5	2	3	5	-	-	2		6	0	6	6		6
		2.	82.5	2	3	3	-			6		6		6		6
90		2.	82.5	82.5	3	5	-	87.5	•	0	0		-	-		:
		~	82.5	3	5	5	-			0	0	0	:	-		-
8		2	82.5	2	3	2	:	-	:	ċ	:	=	;	*		;
1		2	82.5	2.	3		-			0	2.	2.	2	3		3.
8		2	82.5		3		-			0	3.	92.5	3	5		2
		2	82,5		3	0	-			0	3.	2.	5	2		
8			82.5	82.5	è		-	87.5			5.	5.		2		
38	65.0	79.5	32.5	82.5	65.0	65.0	87.5	87.5	87.5	90.8	92.5	5.26	95.0	95.8	97.5	98
	•	2	6.70		6	0	=	•	:	0	3	2074	-		•	
8	•	~	82.5	200		•	27.00	200	200	000	2	42.5	0	9		000
	•	7.	2.30		1	-	:	•	:	0	3	2.7.	:	0	•	5

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

87601 STATION

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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1500 1500

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AI AI

88

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88

AI AI

88

0

VISIBILITY (STATUTE MILES)

TOTAL NUMBER OF OBSERVATIONS

SOMS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATION, ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

18

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CEILING							NIS.	VISIBILITY (ST	STATUTE MILES	EŞ						
(FEET)	2 1	N AI	8 41	AI .	e Ai	2 2%	2 1	¥. Y	¥1 Y1	-	N AI	*	Z AI	2 5/16	AI	AI
NO CEILING		49.2		0	2.		52.5	2		2.	2	2.	2.		2	
Z 20000		49.5		0	5.	2	5.	2	2	2	~	2	2	2	5.	
		49.2	:	0	2.	2.	2.	2	3	~	N	5.	5.	2.	5.	
00091 ×		50.0	:	2	3	3		2	2	3	3	3	2	3	2	
		52.5	:	*	0	9	.9		6.		0	9	0	•	•	
12000		55.1	:			6	6	6	6	6	0	6	6	6	6	
1		55.1		0	6	6	6	6	6	6	2	6	6	6	6	
8	49.2	55.1	55.9	56.8		6		59.3	6	6	0		5			59.3
1		9.49			0		-	-	-	-	~	-	-	-	:	
700		67.0				10	*	*		*		;	;		;	
1		6.80		-	3	5	0		0	9	0		0	0	9	
200		72.0	-	3	0	0	-	-	-	-	-	-	-	-	=	
1		72.0			0	0	-	-	:	-	-	-	-	-	-	81.
1 1		73.7		-	3	3		3	3	3	•	•	;	9	;	
1		73.7	:			60	3	2	2	0	9	9	0	9	9	86.
300		73.7		77.1	3	19		3	5	è	0	9			è	86.
		73.7		1	4	4	0		0	-	-	:			-	87.
700		73.7	75.4	77.1	3	*	.9		9		8		8		6	89.
1		73.7	:	77.1	4	4	0	0	0	-	100	8	8	6	6	
1500		73.7		77.1	*	4	.9	;	•	÷	œ	8	8	6	6	89.0
1		73.7	:		4	*	0	0	6	-	œ	8		6		
141		74.6	:		3	5	-	-	-		9	6	0	-	-	
8		74.6	:		8		:			6	0	0	:	2.	5	95.
8		75.4	:		;	9		8	8	=	N	2	*	;	;	94.
		75.4			9	9	8	8	8	-	2	2.	4	*	;	94.
8	9.49	15.4	:		;				8	-	N	2	;			95.
		4.			0	6	8	8	8	-	2	2.	;	3	•	98.
8		4	17.1	78.8		86.4		88.1	88.1	=	C	2.		5	;	98
		5.	1.1			.0		88.1	8	=	5	2.	;	2.	9	.86
38	4.49	75.4	-			0	00	88.1	00	-	3	3	*	0	-	66
8	4.49	78.4	1.1	18.8	86.4	4.98	88.1	88.1	88.1	91.5	93.2	93.2	6.46	96.6	97.5	66
	04.4	13.4	11.11		9		000	-	X	-	r			-	-	000

TOTAL NUMBER OF OBSERVATIONS

118

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DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

۰ ۸۱

2

(FEET)

NO CEILING

VI VI 00091 VI 000091

12000

VI VI

VI VI 7000

21 21

010

0 AI 2 5/16 AI * × Al ~ AI VISIBILITY (STATUTE MILES) 1 A Y 1% 11 1 2% M Al VI V)

VI VI 860 800 800

300

VIVI 880 880

VIVI 000

88

AI AI

88

88

88

80

TOTAL NUMBER OF OBSERVATIONS

=

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL Z C S

2

CEILING							VISIA	BILITY (STA	VISIBILITY (STATUTE MILES)	(\$						
(FEET)	VI 5	9	AI	A I	AI	> 2%	۲ ۸۱	VI 7/2	¥1	Ā	× Al	₽ Al	Z AI	≥ 5/16	AI N	0 11
NO CEILING	45.8	8.65	50.	0	-	-		2.		2.		55.5	2			
× 20000	46.0	50.0	20.	51.1		52.1	55.5	2.	2	2		52.7	2			53.2
	40.4	50.4	51.	-	2	2		3.		3.		53.4				3.
00091 ~	47.3	51.3	52.	52.7	3	60	54.5	2.45	*	;		54.4	*	5		55.0
	0.65	53.8	54.	5		9	.0	0	9	0		9	-			57.6
≥ 12000	30.0	55.0	56.	56.5	-	-		8	8	8			8	8		58.8
1	50.4	56.1	57.			00	6		6	6		6	6			60.1
N 900	51.3	56.9	58.5	58.6	28.1	265	1.09	1.09	60.1	6009	60.3	C	60.7	6.09	6.00	6.09
	58.8	0.99	57.			3	5	0	•	ċ			-			71.4
1 7000	60.5	68.3	10.		2.	2.	3	3		*			;			74.4
	61.3	10.0	1.			. 4	5	2	5	5		2	0	9		76.5
2000	63.5	73.1	75.		8	8	6	6	6	-		-	5.	2.		82.4
	63.5	73.1	15.	-	8	00	6	6	6	-		-	2			32.4
4000	63.7	75.0	77.3	17.9				3	3			85.7		9		86.3
1	63.7	75.0	11.	17.9		-	3			5.		2				86.3
3000	64.1	75.8	78.	•	3	63.0		6.48	3	-		87.2	-	-		87.8
1	64.1	75.8	2		83.5	3		5		-						88.0
2 2000	64.1	75.8	78.			3	5	3	5	-				6		6
1800	64.1	75.8	18.	70.5	83.4	173	85.3	3		87.8	88.0	88.2		89.3	89.3	89.3
1500	64.3	76.1	78.8		ë	3	3.	3	'n				8	6		
	64.3	76.1	18	5	•		3	5				8		6		89.7
000	64.5	16.9	19.	0		4.		;	. 9			0	7	3		
	64.5	16.9	19.6	80.3	•	4.			0	0		-				93.7
8	1.49	77.1	19.	ċ					-		91.6	=	;	2		
	64.7	77.1	8.61	80.5	4.	. 4	67.0						0		0.96	0.96
00%	1.49	77.1		80.5	6.48			-	-	-		92.2				
	64.7	77.1	8.61	80.5	4	. 4	87.0	87.0				95.4	5		61.3	98.1
1 40	64.7	77.1		ċ						-	95.5		2	6.96	61.3	98.1
300	2.49	77.1	19.8	80.5	84.9	84.9		0	87.2	91.2		92.4	4.56	6.96	61.6	0.66
	54.7	77.1		0	*	. 4	87.0	-	-	-	95.4		2	97.1	1.86	2.66
8	04.7	77.1	20.00	80.2	84.9		87.0	*	87.2	91.5	95.4	92.7		97.3		9.66
٨١		77.1			*	*	87.0			-	4.26	15.1	2	97.3	98.31	00.00

TOTAL NUMBER OF OBSERVATIONS

476

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

73-76

YEAR

JUL 000

3

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING									(Care and a control of the control o	2						
(FEET)	5	۰ ۸۱	47 Al	AI AI	۲۱ ۱۸	2 2%	7 Al	¥1 ¥	¥1 Y	- AI	× AI	*	AI Z	≥ 5/16	M AI	AI
		58.1	6.85	58.9	58.9	58.9	58.9	58.9	58.9	58.9		58.9	6.85	58.9	58.9	58.
> 20000	•	•				8	8	8	8	4	8			8		58.
					58.9	8	8 .		8	8	8	8		8		58.
2 16000	:				6		59.7	59.7	•	6			59.7	•		59.
	:					-1		4	61.3	-	-			-	=	
2 12000	:				-	-	=	-	-	=	:	61.3		-	-	61.
1	:				2.		2.	2	2	5.	5.	3	7	2.		62.
000	:					3							3	3.	3	63.
					6		0	0	0	0	0	0	0	0	0	
141	6103			72.6	72.6	N	73.4	73.4	73.4	3	73.4	73.4	73.4	73.4	73.4	73.
1	2				2	5	3	5	5	3	5		2		5	75.
2000	65.6		78.2	78.2	19.0		19.8						6		6	19.8
	7		78.2		-	6	6		6	6	6		6			79.8
141	63.7			19.8	81.5	81.5	2				3		3	3	3	83.
	3		6		-	-			7				3.			
300	65.3		81.5			17	84.7		;	*		84.7	2	85.5	85.5	85.
	3		-		3	(C)	*		. 4	*			2			85.
2000	65.3			2	84.7	24.7			5	80	3					87.
	5			2		*	5		2							87.
200	1.99		83.1	3	85.5	5.		86.3	86.3		86.3		1.	87.9	87.9	87.
				50	2	65.5		86.3	9	86.3						87.
90	6.99			84.7	87.1	-	-		8	8	8					90
	.0		4	84.7		67.1	-	8	8	8		00	6	0	0	90.
8	.9		4	84.7		87.1	-		8					91.1	91.1	
	9			84.7	87.1	67.1	-	8		œ		8	0		:	91.
8	6.99		84.7	84.7	87.1	87.1				88.7		8	90.3	-	2	*
	60.39	19.8	3	84.7	00	87.1		88.7	88.7	00	6	6	-			97.
8		19.8	;	84.7	87.1	87.1					6		:	•	3	97.
			3	84.7	67.1	87.1		88.7	88.7	88.7	6	0				
88	6.99	19.8		84.7	87.1	87.1	7.					6	:		2.	98.
81		19.8		84.7	87.1	87.1	87.9	88.7	88.7	88.7	89.5	89.5	616	94.4	95.2	98
			,		1						(•				

TOTAL NUMBER OF OBSERVATIONS

124

200

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

87601 STATION

0

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03 HOURS (1.5.7.)

100

883

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71

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N Al

AI

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(FEET)

NO CEILING

VI VI 0009 1 6000

0

1400

0

0

9 % AI AI

0

VISIBILITY (STATUTE MILES)

Oc

1200

88

88

88

0

0

88

3000

0

TOTAL NUMBER OF OBSERVATIONS

SWOS DIRNAVOCEANMET

80

0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

90 705

> PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISIA	BILLTY (ST.	VISIBILITY (STATUTE MILES)	(5)						
(ME)	2 4	9 11	5 2	AI AI	N AI	2 2%	2 4	Z 13	212		AI AI	* 11	AI S	≥ 5/16	Al	O AI
NO CEILING	45.	-	\$5.4	2.			3.				54.0			4	:	54.0
> 20000	45.2	51.6	52.4	52.4	\$2.4	52.4	53.2	53.5	53.2	53.2	:			24.0	54.0	24.0
	45.2	-	52.4	2.	2		3	3	3.	3.	:			*		
2 14000	46.8	53.2	24.0	24.0			*	54.0	;	54.8		2	55.7	55.7		55.7
	40.4	24.8	55.1	55.7	55.1	55.7	56.5	50.5	50.5	57.3	1.85	1.85	38.1			58.1
× 12000	49.2	57.3	58.1	58.1	58.9		6	59.7		60.5		6113	:	61.3	6119	61.3
1	2.65	58.1	50.9	58.9	29.1	59.1	6.00	60.5	60.5	6113	7	7.		1.20	7	
0006	49.2	58.9		29.7	60.5	60.5	61.3		:	62.1	65.9	65.0	65.9			65.9
		65.3		. 9	1.19	67.1			o	4.69	0	7001		70.5	70.2	70.5
780	36.5	70.2	71.8	71.2	72.0	72.6	74.2	74.2	74.2	75.0		75.8	75.8	•	15.8	75.8
1	37.3	11.0	1	72.6		13.4	3	13.0	3		0	9		9	9	16.6
0005		73.4	75.0	75.0	77.4	77.4	79.8	19.8	-	82.3	3	83.1		83.1	83.1	83.1
	36.1	13.4	15.0	13.0				19.8	19.8	82.3	83.1	83.1	83.1	3		
0007	38.9	74.2		75.8	78.2	78.2	80.7	80.7	0	83.1	83.9	83.9		83.9	83.9	83.9
1		74.2	1	15.8	78.2		80.7	80.7	80.7	83.1	83.9	83.9	3.	83.9	83.9	83.9
300	59.7	75.0	77.4	77.4	19.8	79.8		82.3	82.3	85.5		86.3		86.3	86.3	86.3
1		75.0		11.4	19.8	9.6/		82.3	82.3	85.5		86.3	86.3	66.3	86.3	86.3
141	59.7	75.0	7	77.4	19.8	19.8	82.3	82.3	82.3	85.5	86.3	86.3	87.1	87.1	87.1	87.1
1				77.4	19.8	19.8		82.3		85.5	86.3	86.3	87.1	87.1	87.1	87.1
805	59.7	75	77.4	77.4	1.08	80.7	83.1	83.1	83.1	86.3	87.1	87.1	87.9	61.0	61.9	87.9
1	59.7	75.0	17.4	17.4	80.7	80.1	83.1	83.1	3	87.9	88.7	88.7	84.5			89.5
8		75.8	78.2	78.2		82.3		85.5	5	8006	1.16	91.1		93.6	3	
	29.7	75.8	78.2			82.3	84.7	85.5	2	80.3	1.16	1.16	93.6			93.6
8	59.7	75.8	78.2	78.2	82.3	82.3	84.7	85.5	85.5	8006	91.1	91.1	3		93.6	93.6
	59.7	75.8	78.2	78.2	82.3	62.3	64.7	85.5	85.5	8006	91.1	91.1	93.6		94.4	34.4
8	59.7	75.8	78.2	78.2	82.3	82.3	84.7	85.5	3	90.3	•	-		3.	4.46	95.2
	59.7	75.8	78.2	78.2	62.3		84.7	85.5	3		1:16	1:16		3	9	8.96
8	59.7	15.8	19.0	19.0	83.1	83.1	85.5	86.3	86.3	91.1	•	6116	94.4	94.4	96.8	97.6
	59.7	75.8	0.6/	0.6/	83.1	83.1	85.5				6.16	6116	4.46		96.8	91.6
141	59.7	75.8	19.0	19.0	83.1	83.1	35.5	86.3	;	91.1	:	91.9	4.46	94.4		91.6
	59.7	75.8	0.61	0.64	83.1	83.1	85.5	86.3	86.3	91.1	616	:	5.50	;	96.8	91.6
111	59.7	15.8	19.0	19.0	83.1	83.1	85.5	85.3	86.3	91.1	6116	6116	4.46	4.46	8.06	0.00

TOTAL NUMBER OF OBSERVATIONS

124

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE

JUL 2017

TOTAL NUMBER OF OBSERVATIONS

1800

AI	7 AI	AI	AI	AI	2 A	AI	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) 1	WISHILTY (STAUTE MILES) VISHILTY (STAUTE MILES) 12	VISIBILITY (STATUTE MILES) CEILING	(FEET)	NO CEILING	2 18000 2 16000	≥ 14000 ≥ 12000	2 10000 2 9000	000 A A	0006 5	¥ 4500 1 4000	2 3500	≥ 2500 ≥ 2000	1500	N 1200	00 8 8	2 7 70 600	500 004	93	
AI	7,1	7 AI	2 A A A A A A A A A A A A A A A A A A A	2 A A A A A A A A A A A A A A A A A A A	2 AI	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISBILITY (STATUTE MILES) VISBILITY (STATUTE MILES) VISBILITY (STATUTE MILES) VISBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES)		Al															
			AI	AI	2 AI	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)	VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES) VISIBILITY (STATUTE MILES)		\$1 A1															
	AI III	N 2½	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	VISIBILITY (ST	VISIBILITY (STATUTE MIL. 2 2 1				AI RAI AI A	AI		4															
AI	AI 20	AI 20	AI 20	AI 20	AI 20	A1	AI 91 / 1	9 %				Al															

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 HOURS (1 S T)

JUL

	O AI	55.7	57.3	65.29	64.5	666.1	75.8	19.8	83.9	84.7	85.5	27.0	89.5	89.5	92.7	96.0	97.0	98.4	4.86	99.2
	N AI	- 50	-	20	4.5	6.1	200	8.6	3.0		2.0		9.5	5.	7.0	10.0	0 4	4 4	4 4	98.4
	≥ 5/16	6.0		2.9	2.0	6.1	00	6	2	4		:	6	5 .	20	0		98.4		
	Z AI	. 15	6.3	5.0	5.0	0.0	N 20	9.8	3.0	4.7	200	. 0	9.5	2.5	7.7	0 4	000	7.0	00	
	*	55.7	64) R	10	10	21	N 60	8										0.96		
	% AI	5.0	6.0	5.0	5.0	6.10	-	8.6	3.0	4.7	2.0		9.5	2.5	5.7	2.5	200	0.96	000	0.9
8	ÃI	50	-	2	4			6		4 .		-		0 0	~	5 1	1 00 00	95.2	300	
TUTE MILE	71	0.0	1.	200	*		0 5	6	6	4		-	6	2.	20		1 10 10	93.6	3	m m
VISIBILITY (STATUTE MILES)	27 27	55.7			:			6	m 1	: :		:		5.2	2.6		-	93.6	9 60	
	~ 1	0.0	-	000			78.8	5		9 4	5			6 -		i N	VNA	92.7		
	N 2%		00	2		. 10	75.0	6	m 6				- 33	œ c			4	91.1	91:1	91.1
	e Ai		00	2	m.		75.0	6	2	83.0	3 :			800	0 -		4			91.1
	AI AI	53.2	3 0		2	63.7	73.4			20.00	82.3		30	85.3	86.3	20.2	87.1		87.1	87.1
	S) Al	::	:-		-	::	72.0	:	-	::	·.	:	84.7	84.7	85.5	20 2		85.5		
	o Al	52.4	54.0		60.09	62.1	71.0	74.2	4:5	78.2	18.2	7.01		79.8	80.4		800.7	80.7	80.7	80.7
	0 41	40.04	50.0	35.7	10	-	-	-	-	~		-	69	4.69				4.69		
CEILING	(FEET)	NO CEILING	-	14000	12000	900k	VI V 0007	0009	2000	VI VI 86 80 80	3300	3000	7 2 3 0 0 0 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	VI V 08 51 08 51						80

TOTAL NUMBER OF OBSERVATIONS

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DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATION, ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15 JUL ...

H

7 * W V -AI VISIBILITY (STATUTE MILES) ¥ 1% 7 1% ۲ ۸۱

2

(FEET)

NO CEILING > 20000 VI VI 18000 1 VI VI

V 1 4000

VI VI 0000 0000 0000

9006 AI AI

7000 7000

VI VI 4000

3000

1200

AI AI

88

88

AI AI

88

AI AI

88

AI AI

4

NI NI 2 5/16 2 2% W Al 4 1 4

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MURDO STATION, ANTARCTICA Ä

87601

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PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

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87.9 82.3 82.3 91.1 96.00100.09 91.1 85.5 91.1 91.1 ٨١ 0.96 57.3 4.46 67.9 83.9 91.1 60.5 60.5 61.3 70.2 83.1 85.5 1.16 1016 61.3 61.3 88.7 60.5 13.4 74.2 61.1 91.1 93.6 57.3 6.06 93.6 93.6 90.3 93.6 8006 61.3 81.5 82.3 8006 60.5 70.2 87.1 87.9 59.7 67.7 83.1 34.7 89.5 89.5 87.1 59.7 60.5 81.5 82.3 89.5 89.5 1.26 87.9 92.7 92.7 92.7 92,7 61,3 61,3 92.7 84. 89.5 89.5 616 616 59.7 60.5 60.5 61.3 70.2 73.4 81.5 82.3 83.1 87.1 87.9 91.9 6.16 91.9 89.5 6.16 67.1 84. 616 82.3 60.5 61.3 83.1 61,3 70.2 86.3 91.1 81.5 1.16 91.1 91.1 1.19 87.1 88.7 88.7 88.7 91.1 1.16 91.1 91.1 91.1 1.16 1:16 50.5 84. 88. Al 57.3 73.4 6009 80.3 59.7 90.3 60.5 60.5 60.5 61.3 70.2 82.3 83.1 89.5 89.5 89.5 90.3 60.5 61,3 80.7 81.5 85.5 86.3 87.1 88.7 88.7 8006 90.3 89.5 90.3 89.5 90.3 90.3 67.7 8008 87.9 88.7 86.3 87.9 87.9 87.9 88.7 83.9 84. VISIBILITY (STATUTE MILES) 4.69 82.3 89.5 56.5 58.9 60.5 12.6 81.5 86.3 89.8 89.5 89.5 6.99 87.9 57.3 87.9 14 87.9 60.5 86.3 86.3 87.9 72.6 72.6 89.5 89.5 89.5 89.5 89.5 4.69 4.69 83.9 83.9 6.99 6.99 85.5 85.5 81.5 81.5 89.5 79.0 80.7 80.7 7 1% 87.9 50.5 60.5 82.3 39.5 89.5 89.5 86.3 87.9 58.9 89.5 89.5 89.5 59.7 89.5 59.7 58.9 60.5 4.69 8.61 86.3 56.5 6.99 82.3 83.9 86.3 87.1 80.7 84.7 87.1 87.1 59.7 87.1 87.1 60.5 58.9 72.6 19.0 87.1 60.5 6.99 4.69 8.64 80.7 82.3 83.9 86.3 86.3 87.1 87.1 87.1 59.7 84.1 71.8 83.9 85.5 85.5 86.3 87.1 87.1 87.1 87.1 56.5 87.1 86.3 87.1 N N 0.67 60.5 60.5 81.5 86.3 59.7 59.7 4.69 12.6 57.3 60.5 6.99 78.2 85.5 86.3 86.3 56.5 58.9 59.7 19.8 83.1 83.9 85.5 86.3 86.3 86.3 86.3 86.3 83.9 85.5 85.5 86.3 86.3 VI 86.3 83.1 78.5 83.9 86.3 86.3 58.9 6.99 4.69 19.8 85.5 86.3 86.3 57.3 60.5 0.61 81.5 86.3 50.5 85.5 86.3 86.3 59.7 86.3 58.9 72.6 77.4 81.5 84.7 56.5 57.3 6000 4.69 79.0 83.9 84.7 78.2 83.9 84.7 84.7 36.5 59.7 56.5 60.5 60.5 66.9 80.7 82.3 64.7 84.7 84.7 84.7 56.5 59.7 34.7 84. 6.99 4.69 56.5 4.69 71.8 71.8 1.8 71.8 11.8 0.5 71.8 900 71.8 11.8 2 NO CEILING 80 VI VI 00091 000091 (FEET) ≥ 20000 Y 1 400 VI VI 88 2000 \$000 450 450 450 450 3500 2000 1800 1200 88 88 88 88 AI AI AI AI AI AI ALAI ALAI AI
TOTAL NUMBER OF OBSERVATIONS

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DIRNAVOCEANMET SMOS

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601 STATION

CEILING VERSUS VISIBILITY

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JUL HONTE

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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SNC.		2000	00091	14000	9000	2000	9000	4500	3000	2000	1500	1200	88	88	88	38	
	2																
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VIS	2 1																
VISIBILITY (STATUTE MILES)	¥1 ¥1																
ATUTE MIL	71 \																
(ES)	<u></u>																
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	≥ 5/16																
	Al																

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS (157) 1

CHILING CHI	00000000000000000000000000000000000000	1	24 24 24 24 24 24 24 24 24 24 24 24 24 2	24 24 24 24 24 24 24 24 24 24 24 24 24 2	23 25 25 25 25 25 25 25 25 25 25 25 25 25	8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	V	NISIBILITY (STATUTE MILES) NI	ATOTE MILE AND TO SEE THE SEE	20 00 00 00 00 00 00 00 00 00 00 00 00 0	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V V V V V V V V V V V V V V V V V V V	00000000000000000000000000000000000000	7 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8		0.2	83.9	64.3	87.1	87.1	98.9	89.5	89.5	611.3	92.1	92.3	4.46	92.6	9096	98.4

TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDE STATIONS ANTARCTICA

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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CEILING																
(FEET)	2 1	o Al	AI	4	N AI	2 2%	7	VI VI	VI 72	Ā	× N	*	Z AI	2 5/16	N AI	٨١
NO CEILING		53.2	54.0	4	3		*		54.8	4.		54.8	4			54.
× 20000	53.5	54.8	55.7	55.7	36.5	56.5	56.5	•		56.5			50.5		56.5	56.
		54.8	55.7	55.7	0		.9		9	. 9			0	9	•	56.
14000		56.5	57.3	57.3		58.1		58.1	8		58.1	58.1	00	58.1	58.1	
		56.5		57.3	58.1	58	8	8	8	30					8	58.
12000		58.9		59.7	0	.00	60.5	60.5	0	60.00		_	0		60.5	000
1 -		59.7			-	61.		-		-			2		2	
9	60.09	65.9	63.7	63.7	64.5	64.	64.5	64.5	3	64.5	64.5		65.3	5	65.3	65.
1		68.6		6	70.2	0				-		:	-	-	:	:
141		72.6		74.2	75.0	-						75.8		76.6	•	
1	1 .	15.8			0.61	61				0		.0	:	-	:	81.5
2000	-	75.8			19.0	19.				ċ		ö	-	-	:	=
1		75.8			19.0	61							:	-	:	:
1 1	-	76.6		•	19.8	19				-		81.5	3	2.	5	2
1		16.6			19.8	61		0		-			7	2	7	82.
300	73.4	78.2			82.3	82.		3.				84.7	3	3		
1		78.2			82.3	62.				*		84.7	2	3	2	
200		80.7		83.1	84.7	1000		86.3				87.1	-	-	-	87.
1		80.7		(1)	84.7	40				7.		87.1	-		87.9	87.
141	-	80.7		83.1	4	84.7		87.1		87.9	88.7	88.7	89.5			89.
1		80.7		83.1	84.7	X)				-				6		89.
90	-	83.1			87.1	87.1						92.7		*	;	94.
		83.1	84.7		87.1	_		90.3				2	*	;	94.4	. 76
8		83.1	84.7	85.5	87.1	87.1	80.3	80.3		-		92.7	*		;	*
		83.1	84.7		-	87.1		0		2.	93.6			5		95.
8	-	83.1	84.7	85.5	87.1	87.1	6.06	90.3				*	;		0.96	96
		83.1	84.7		87.1	87.1	0			3.		34.4	0		9	97.6
141		83.1	84.7	85.5	87.1	87.1	90.3	80.3	0	93.6		4.46	97.6	00	98.4	66
		83.1	84.7	85.5	87.1	87.1		80.3			*	4.46			98.4	.66
8 1 A I	75.0		84.7	85.5	87.1	87.1	0	6.06				*	97.6	98.4	•	66
8		83.1	84.7	85.5	87.1	87.1	6.06	600	0	93.6	4.46	4.46	91.6	98.4	99.2	100.0
						-		-		-	•	•				

TOTAL NUMBER OF OBSERVATIONS

MC MURDO STATION, ANTARCTICA

87601 STATION

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03 HOURS (1.5.7.) AUG

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SAL III							VISI	BILITY (ST	VISIBILITY (STATUTE MILES)	ES						
(FEET)	2	NI NI	\$ 41	7	2	2 2%	2 41	N 1%	¥1 VI	Ā	× AI	# Al	S AI	2 5/16	× Al	O AI
NO CEILING			83.3	83.3	-	83.3	83.3	83.3	3.		83.3	83.3	83.3	83.3	83.3	83.3
> 20000			83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
V 18000		3	83.3	83.3	3	63.3	83.3	83.3	3.	3.	83.3	83.3			83.3	83.3
14000	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
		3	83.3	83.3			83.3	83.3	3		m	83.3			63.3	83.3
1200		3	83.3	83.3	83.3	83.3	63.3	83.3	3	*	83.3	83.3		3	83,3	83.3
1 -		3.	83.3	83.3	3.	63.3	83.3	83.3			-	83.3			-	83.3
900		3	83.3	83.3	3	83.3		83.3	3					8	83.3	83.3
1		3	83.3	83.3				83.3	3	3	3				-	83.3
700		3	83.3	83.3		83.3	83.3	83.3	83.3	3	83.3		83.3		83.3	83.3
1		3	83.3	83.3	3		3.	83.3	3	3.	3	83.3		3	83.3	83.3
200			83.3	63.3		83.3		83.3	3	63.3	83.3	3	83.3	3	83.3	83.3
1		3	-	83.3	3	3.	3		3		m	83.3	3	3	3	83.3
141		3	83.3	83.3	63.3	83.3		83.3	3		83.3	3	83.3	3	83.3	83.3
		3	-	83.3	-		3.	83.3	3	3.		1		3	83.3	83.3
300		3	83.3	83.3		83.3		-	3		3		83.3	3	83.3	83.3
1		3.	83.3	63.3	3		3.	83.3	3.	3			1-	3	83.3	83.3
300		3	-	83.3	83.3	83.3		83.3	3.		83.3	83.3	83.3		83.3	83.3
1		3.	83.3	83.3		83.3		83.3			83.3		83.3	3	83.3	83.3
200		3	•	83.3	63.3	83.3		83.3	3	3	83.3		83.3	83.3	83.3	83.3
1			•	83.3		83.3		83.3	3						83.3	83.3
8		=	83.3	83.3	3			83.3	83.3		83.3	83.3	83.3	83.3	83.3	83.3
		6	83.3	83.3				83.3	3.			83.3	3		83.3	83.3
8		3.	83.3	83.3	83.3		83.3	83.3		83.3	83.3	83.3	83.3		83.3	83.3
		m	83.3	83.3	83.3	83.3		83.3			3	m		3	83.3	83.3
8		3	83.3	83.3	3			83.3	3	•	83.3	83.31		ò	00.00	0
		3	83.3	83.3	3.		63.3	83.3	83.3		m	83.3		0	00.00	0000
8		3	83.3	83.3	3	83.3	83.3	83.3	83.3	83.3		83.3		00.00	00.00	0000
		3	83.3	83.3	83.3	83.3	83.3	83.3		83.3	83.3	83.3	00.00	0	00.00	0000
8 1 A I			83.3	83.3	83.3	63.3	83.3	83.3	83.3	83.3	83.3	83,31	00.00	0	00.00	0000
		**	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	00.00	00.00	0	0000
٥			83.3	83.3	83.3	63.3	83.3	83.3	83.3	83.3	83.3	83,31	00.00	00.00	00.00	0000

TOTAL NUMBER OF OBSERVATIONS

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) MURDO STATION, ANTARCTICA

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

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87601

90 AUG MONTH

1880

97.6 82.1 91.1 81.3 81.3 82.1 ٨١ 4.68 85.4 91.6 94.6 8.96 6.69 6.69 6.69 82.1 34.6 84.6 89.4 90.96 82.1 82.1 91.1 91.1 82.1 78.9 69.1 66.7 89.4 97.6 6.69 85.4 8.96 74.0 89.4 97.6 97.6 97.6 78.9 82.1 96.8 97.6 97.6 97.6 97.6 69.1 81.3 82.1 66.7 66.7 82.1 82.1 91.1 91.1 2 5/16 4.68 74.0 1.69 6.69 6.69 82.1 84.6 85.4 8.96 8.96 81.3 82.1 1.16 66.7 82.1 91.1 66.7 82.1 2 A 80.5 89.4 6.66 62.6 62.6 81.3 81.3 87.8 89.4 82.9 73.2 81.3 87.8 95.1 6.56 95.9 95.9 81.3 6.56 62.6 68.3 1.69 69.1 78.1 63.4 95.1 83.7 * 87.8 89.4 6.56 6.59 4.68 6.56 81.3 82.9 87.8 6.59 73.2 81.3 81.3 68.3 80.5 81.3 95.1 95.1 6.56 6.56 78.1 83.1 81.3 82.9 87,8 89.4 89.4 81.3 95.1 6.50 73.2 80.5 81.3 81.3 83.7 87.8 95.1 95.1 65.9 65.9 65.9 65.9 68.3 69.1 78.1 81.3 94.3 95.1 84.3 95.1 AI VISIBILITY (STATUTE MILES) 86.2 86.2 73.2 66.3 69.1 82.1 86.2 4.68 4.68 4.68 89.4 4.68 86.2 79.7 89.4 89.4 79.7 79.7 76.4 79.7 17 68.3 73.2 76.4 81.3 89.4 89.4 89.4 82.1 86.2 89.4 86.2 69.1 69.1 79.7 79.7 19.7 79.7 89.4 89.4 89.4 4.69 81.3 86.2 4.68 4.68 6.59 68.3 76.4 86.2 7.98 86.2 4.68 73.2 78.9 79.7 79.7 82.1 79.7 1.69 79.7 7 67.0 65.0 84.6 94.6 0.13 87.0 62.6 62.6 62.6 62.6 67.5 67.5 67.5 67.5 75.6 80.5 84.5 87.0 68.3 78.9 78.9 79.7 87.0 87.0 87.0 87.0 34.6 2 2% 78.9 0.59 80.5 84.6 87.0 87.0 79.7 84.6 87.0 87.0 75.6 84.0 87.0 87.0 87.0 87.0 68.3 78.9 78.9 78.9 84.6 72.4 78.1 67.5 68.3 68.3 68.3 N Al 68.3 62.9 82.9 80.5 83.7 83.7 78.1 82.9 65.0 65.0 75.6 78.1 78.1 83.7 78.1 78.1 78.9 82.9 83.7 83.7 83.7 83.7 83.7 83.7 ٨١ 82.9 75.6 78.1 78.1 82.9 83.7 83.7 78.1 82.9 78.1 80.5 83.7 72.4 77.2 78.9 76.4 78.1 80.5 83.7 AI 80.5 64.2 74.8 75.6 76.4 79.7 76.4 80.5 67.8 60.7 71.5 75.4 77.2 80.5 80.5 80.5 61.8 64.2 4.97 6.69 79.7 79.7 80.5 79.7 66.7 AI 73.2 6.69 72.4 6.69 72.4 12.4 73.2 73.2 13.2 6.69 6.69 12.4 13.2 73.2 6.69 NO CEILING VI VI 00091 VI 12000 VI VI 2000 1500 80 (FEET) ¥ 20000 2000 4500 3000 1200 2000 88 88 88 88

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TOTAL NUMBER OF OBSERVATIONS

123

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DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

73-74,76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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60

CEILING							VISI	IBILITY (ST.	VISIBILITY (STATUTE MILES)	(S)						
(FEET)	02 A	9	\$	4	e Al	≥ 2%	1 2	V 1%	¥1 VI	- AI	AI	*	Z.	2 5/16	AI	O Al
NO CEILING		50.0	50.0	50.0	90.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
> 20000		50.0	20.0	50.0	50.0	20.0	50.0	50.0	20.0	20.0	20.0	20.0	90.0	20.0	20.0	50.0
		20.0	20.0	50.0	50.0	20.0	50.0	50.0	20.0	50.0	20	20.0	50.0		20.0	50.0
V 16000		50.0	20.0	50.0	20.0	50.0	20.0	20.0	20.0	50.0	20.0	50.0	50.0	20.0	20.0	50.0
		0.09	0.09	0.09	0.09	0.00	0.09	0.09	0.09	0.09	9	0.09	60.0	0.09	0.09	0.09
> 12000		0.00	0.09	0.09		0.09		0.09	90.0	0.09	0.09	0.09	60.0	0.09	0000	60.0
-		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	90		0.09	0.09	0.09	0.09
0006		0.09	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09	0.09	60.0	0.09	0.09	0.09
		0.09	0.09	0.09	60.0	0.09	0.09	0.09	0.09	0.09	.09	0000	60.0	0.09	0.09	0009
7000		0.09	0.09	0.09	0.09	0.00	0.09	0.09	0.09	0000	0.09	0000	0.09	0.09	0.09	60.0
1		0.09	0.09	0000	0.09	0.09	0.09	0.09	0.09	60.0	0.09	0000	000	0.09	0.09	60.0
0005		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	60.0	0.09	0.09	60.0	0.09	0.09	0.09
		0.00	0.09	0.09	0.09	0.00	0.09	0.09	0.09	0.09	0.09	0.09	60.0	0000	0.09	60.0
0004		0.09	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	60.0
1		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	60.0	0.09	0.09	0.09	0.09	0.09	0.09
3000		0.09	0.09	0.09	0.09	0.09	0.00	0.09	0.09	60.0	0.09	0.09	60.0	0.09	0.09	000
		10.0	10.0	70.0	70.0	10.0	70.0	10.0	10.0	70.0	70.0	10.0	70.0	70.0	70.0	70.0
1 2000		90.01	100.001	00.00	100.001	10000	100.001	100.001	100.001	100.0	100.0	100.0	10000	100.0	100.00	0000
1		90.01	0.00	0000	0.001	0.00	10000	100.0	100.00	100.0	100.0	100.0	100.0	100.0	100.0	0000
1500		90.01	100.001	100.00	100.001	10000	100001	100.00	100.001	100.0	100.001	100.0	100.0	100.0	10000	0000
		90.0100	100.001	0.00	100.00	0000	100001	100.0		100.0	100	100	100.0	0	100.00	0000
1000		90.01	00.00	00.00	100.001	0.00	100001	100.001	100.001	1000	100.0	100.0	100.0	100.0	100.00	0000
		90.01	0000	0000	0.001	00.00	0.001	100.00	100.001	100.0	10000	100.0	100.0	10000	10000	0000
8		90.01	100.001	0.00	100001	10000	100.00	100.0	100.00	100.0	10000	10000	100.0	10000	10000	0001
1		90.01	0000	0.00	100.0	0.00	0.001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	10000	0000
08 1 A I		90.01	100.001	100.00	10000	0.00	100.001	100.00	100.00	100.0	100.0	100.0	100.0	100.0	100.0	0000
		90.0100	00.00	0000	10000	0.00	0.001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	0000
14	•	80.01	:	0100.01	100.001	0.00	100001	100.00	100.00	1000	100.0	100.0	100.0	100.0	10000	0000
	0.0%	30.0	100.001	00.001	0.001	00.00	0.001	0.001	100.0	0.001	100.0	100.0	0.00	100.0	0.001	0000
7 200	•	90.01	00.00	00.00	100.00	00.00	0.001	100.001	100.001	1000	100.0	0000	100.0	10000	0.001	000
8	0.06	070.06	0000	00.00	0.00	0.00	0.00	0.001	100.0	100.0	100.0	0.001	0.001	100.0	0.001	0000
	20.0	0.06	00.00	0.0100.0	0.00	00.00	0.00	100.00	0.001	100.0	0.001	0.001	0.001	100.0	0001	000

TOTAL NUMBER OF OBSERVATIONS

===

87601 STATION

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 AUG

200

	0	50.09		54.0	59.3	77.4	78.2	81.5	35.5	86.3	38.7	32.7	36.8	98.4	000	000	0000
	AI AI	70	50.0	00	9.7	77.4	-	81.5	75	86.3	92.7	~ 8	8.96	00	de	77	99.210
	5/16	60	50.0	6.5	5.	4.4	00 00	1.5	3.1	6.9	88.7	2.7		7.0	2 2	9.5	99.2
	% AI	20	0.0	0 10	59.3	0.4	20	25	-10	9.		- 60	20 00	96.8	00 00	00 00	8 3
	*				59.3			81.5	83.1		92.7		96.8	96.8	96.8	96.8	96.8
	× AI		50.0	56.5	59.7	77.4		81.5		88.7	92.7			96.8		96.8	96.8
(S)	- AI		0 -	4 0	59.7	9.	æ æ		3		8 2	200			9 9		96.8
VISIBILITY (STATUTE MILES)	VI X	60	0-		56.5			81.5					200	92.7	92.7	92.7	92.7
BILITY (ST.	7.	50.0	0 -	* 0	59.3	77.4		81.5	83.1	86.3		91.9	92.7	92.7	92.7	92.7	92.7
VISIA	2 Al	60		* 0	56.5	00	77.4	80.7	82.3	30	::			91.9	91.9	91.9	91.9
	2 2%	50.00		56.5	59.7	76.6	77.4			87.9		90.3	91.1	91.1	91.1	91.1	91.1
	N AI	00			59.7	76.6	-:		84.7	87.9		90.3	91.1	91.1	91.1	91.1	91.1
	AI	50.0	50.0	56.5	56.3	76.6	77.4	80.7	82.3	87.1	87.1	88.7	89.8	89.5	89.5	89.5	89.8
	AI S	50.	50.	54.	1	76.		- 20	1	pc 00	36	ED 00		1			
	9 11	49.	50	53	2000	75.	76.	79.	83.	4 50	8 2	87.	87.	8 27	87.	87.	87.
	0 4										80.7						
CEILING	(FEET)	NO CEILING	VI VI 00081 VI 00081	Y 14000 Y 12000	1 1 10000	9000 7 7000	0006 VI VI	4500 4000	3500	7 2 200	VI VI 0081 0081	VIVI 1200 1000	88	88	VIVI 88	88	8 °

TOTAL NUMBER OF OBSERVATIONS

124

1861

87601 STATION

66.7

66.7

58.3

58.3

58.3

0 1

۸۱

75.0

15.0 75.0 75.0 75.0

CEILING VERSUS VISIBILITY

MURDO STATION, ANTARCTICA

Z.

87601

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

73-74,76

15 HOURS (1 5 T.) MONTH

AUG

E

100.010 100.0 75.0 83.3 75.0 58.3 75.0 58.3 75.0 58.3 83.3 91.7 91.7 91.7 91.7 75.0 58.3 58.3 75.0 75.0 83.3 58.3 58.3 58.3 58.3 58.3 75.0 75.0 75.0 91.7 66.7 83.3 91.7 91.7 2 5/16 91.7 66.7 58.3 15.0 75.0 58.3 58.3 75.0 15.0 91.7 91.7 91.7 58.3 91.7 58.3 58.3 58.3 75.0 83.3 91.7 66.7 66.7 ۸۱ 75.0 15.0 75.0 15.0 15.0 21.1 75.0 83.3 58.3 58.3 58.3 56.3 58.3 58.3 83.3 66.7 66.7 91.7 75.0 15.0 91.7 61.7 75.0 75.0 75.0 75.0 83.3 58.3 58.3 58.3 75.0 75.0 58.3 58.3 58.3 58.3 66.7 1.99 83.3 83.3 91.7 % Al PERCENTAGE FREQUENCY OF OCCURRENCE 75.0 75.0 75.0 58.3 58.3 91.7 58.3 75.0 91.7 75.0 58.3 58.3 58.3 58.3 58.3 58.3 66.7 83.3 666.7 91.7 91.7 91.7 ٨١ VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) 75.0 15.0 75.0 75.0 58.3 58.3 58.3 58.3 63.3 66.7 91.7 66.7 91.7 91.7 ¥1 14 75.0 75.0 75.0 58.3 15.0 58.3 58.3 75.0 83.3 58.3 58.3 66.7 83.3 66.7 91.7 91.7 91.7 91.7 83.3 75.0 75.0 75.0 58.3 58.3 75.0 58.3 75.0 75.0 58.3 83.3 91.7 91.7 58.3 58.3 91.7 7.19 7.19 7.19 58.3 58.3 66.7 66.7 7 75.0 58.3 75.0 75.0 15.0 0.5/ 58.3 15.0 58.3 83.3 58.3 58.3 58.3 66.1 63.3 91.7 91. 91.7 91.7 06. 75.0 75.0 75.0 15.0 75.0 58.3 58.3 75.0 58.3 58.3 58.3 83.3 58.3 66.7 83.3 91.7 91.1 58.3 66. n Ni 75.0 58.3 58.3 73.0 75.0 83.3 58.3 75.0 75.0 75.0 75.0 58.3 58.3 58.3 75.0 75.0 66.7 66.7 83.3 83.3 91.7 91.7 56.3 58.3 91.7 91.7 ٨١ 58.3 75.0 58.3 58.3 15.0 58.3 58.3 15.0 83.3 58.3 1016 41.7 1.99 66.7 91.7 83.3 91.7 N Al 75.0 58.3 75.0 58.3 58.3 58.3 58.3 58.3 58.3 58.3 58.3 66.7 83.3 83.3 83.3 83.3 66.7 66.7 66. 91.7 66.7 66.7 ۰ ۱۸ 58.3 58.3 56.3 58.3 75.0 83.3 15.0 83.3 58.3 58.3 58.3 58.3 66.7 1.99 33.3 66.7 91.7 1.16 91.7 91.7 66.7 66.7 91.7 2 NO CEILING

TOTAL NUMBER OF OBSERVATIONS

100.010 100.010 100.0 100.010

SMOS DIRNAVOCEANMET

6

91.7

80

AI AI

91.7

88

AI AI

91.7

88

AI AI

91.7

88

AI AI

88

AI AI

2500

ALAI

3500

AI AI

4500

AI AI

1500

AI AI

900

AI AI

(FEET)

VI VI 0009 16000

> 20000

12000

2000

AI AI

2000

AI AI

78.2

78.2

82.3

82.3

83.9

83.9 83.9

83.9 83.9 89.5 89.5 90.3

89.5

89.5 6.06 95.2 95.2 95.2

95.2

90.3

90.3

86.3 86.3

86.3

86.3

84.7

84.7

83.9

72.6

12.6

4.69

7.69

63.

CEILING VERSUS VISIBILITY

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATION, ANTARCTICA

AUG -

3

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

82.3 83.9 89.5 56.5 56.5 56.5 56.5 59.7 12.6 78.2 84.7 95.2 24.0 83.9 86.3 95.2 95.2 83.9 89.5 90.3 56.5 62.1 4.69 86.3 90.3 56.5 63.7 2 5/16 86.3 89.5 7.76 4.69 12.6 78.2 83.9 90.3 94.4 4.46 89.5 50.5 59.7 62.1 83.9 83.9 83.9 83.9 86.3 90.3 82.3 63.1 84.7 84.7 84.7 A 4.69 78.2 83.9 83.9 93.6 93.6 12.6 90.3 62.1 62.9 62.9 63.7 63.7 86.3 89.5 89.5 89.5 89.5 93.6 56.5 86.3 86.3 90.3 90.3 93.6 59.7 82.3 72.6 83.9 93.6 24.0 4.69 93.6 1.65 78.2 83.9 8006 86.3 62.1 56.5 82.3 ₹ N 71.8 68.6 87.9 58.9 58.9 85.5 87.9 61.3 61.3 55.7 83.1 83.1 88.7 88.7 91.1 91.1 83.9 83.1 91.1 -AI 71.8 9.89 75.8 81.5 83.9 53.2 81.5 82.3 87.1 88.7 81.5 86.3 68.7 83.9 86.3 87.1 38.7 55.7 19.8 71 4 68.6 81.5 82.3 87.1 65.3 86.3 86.3 88.7 58.9 11.8 75.8 61.3 83.9 83.9 87.1 88.7 81.5 81.5 88.7 Y 1% 83.9 86.3 83.1 83.9 58.9 75.8 81.3 82.3 87.1 88.7 88.7 82.3 83.9 83.9 86.3 86.3 88.7 6119 81.5 61.3 62.9 62.9 62.9 00 83.9 55.7 68.6 68.6 1.6 79.8 87.1 55.7 7 61.3 66.3 80.7 61.5 84.7 75.8 58.9 11.8 80.7 80. 83.1 86.3 84.7 55. 7 2% 61.3 75.8 80.7 82.3 82.3 83.9 79.8 81.5 71.8 68.6 83.1 75.8 0.64 80.7 83.1 83.9 84.7 86.3 76.6 82.3 83.9 83.9 86.3 58.9 77.4 79.0 79.0 80.7 79.0 80.7 84.7 41 74.2 4. 80.7 82.3 82.3 83.9 83.9 70.2 61.5 54.8 6.99 58.1 60.00 83.1 79.0 79.8 81.5 81.5 61.5 83.1 83.1 70.5 74.2 4.1 19.0 81.5 58.1 0.61 77.4 79.0 24.8 61.3 61.3 6.99 54.8 60.5 11 73.4 7.6 78.2 70.2 82.3 54.8 6.99 75.8 81.5 8.61 58.1 50.09

TOTAL NUMBER OF OBSERVATIONS

124

281

99.2100.0

98.4 98.4

2.65 4.86

91.6 91.6

95.2

95.2

91.9 95.2 91.9 95.2

95.2

91.9 95.2

88.7

38.7

86.3

86.3

83.9 83.9

76.6 82.3

88

88

AI AI

86.3

86.3

6.6 82.3 83.9 83.9

88.7

88.7

89.7

88.7 88.7

82.3 83.9 83.9 86.3 86.3

83.9 83.9 86.3

76.6 62.3

16.6

88

76.6

98

AI AI

9.9/

88

AI AI

15.8

15.8

8 6 6

AI AI

95.2 95.2

88.7 91.9 95.2

88.7

88.7 88.7

86.3

66.3 86.3

86.3

88.7 88.7

75.6 82.3 83.9 83.9 86.3 86.3

75.6 82.3 83.9 83.9 86.3

65.3

16.6

76.6

80

ALAI

0.16

94.6

96.8 91.6

95.2

91.9 95.2

88.7 88.7

88.7

88.7

86.3

98.4

4.86 98.4

2.56

95.2

99.2100.0 99.2100.0

98.4

91.6

99.2100.0

SWOS DIRNAVOCEANMET

87601

8

1 5 1) SHOOM

56.5

AI

50.5

56.5

59.7

57.3

59.7

V IV 14000

24.0

24.0

> 20000

NO CEILING

2

(FEET)

54.0

VI VI 00081 00081

4.69

200

67.1

65.3

60.0

72.6 12.6 72.6 13.4

900

4500

0.1

75.0

3800

15.0

15.8

2000

62.1 59.7

62.1

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

87601

0

MC MURDO STATION, ANTARCTICA

73-74,76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

AUG 21

CEITING								SIBILITY (S	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	2	41	5 4	7	2 3	2 2%	2.2	Y 13	¥1 ¥	Ā	AI AI	*	Z AI	2 5/16	M M	O AI
O CEILING	58.3	58.3	66.7	66.7	66.7	66.1	56.7	66.1	56.7	66.7	1.99	66.1	66.1	66.1	1.99	66.
> 20000	56.3	58.3	66.7	66.7	56.7	66.7	66.7	7.99	66.7	66.7	66.7	1.99	66.7	66.7	66.7	66.7
	58.3	58.3	66.7	66.7		06.1	66.7	66.1	66.7	66.7	1.99	1.99	66.7	66.7		66.
¥ 16000	59.3	58.3	66.7	66.7	66.7	66.7	66.7	66.7	9	66.7	66.7	2009	86.7	66.7	66.7	66.7
1	58.3	56.3	66.7	1.99	66.7	66.	66.7	1.09	9	66.7	1.99	66.7	66.7	66.7	66.7	66.
7 12000	58.3	58.3	66.7	66.7	66.7	66.7	1.99	1.99		66.7	66.7	1.99	66.7	66.7	66.7	66.7
, -	66.7	66.7	15.0	75.0	75.0	15.	75.	75.0			15.0		15.0	75.0	15.0	75.0
900	1.99	66.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
	66.7	66.7		75.0		18	75.	75.0			5	75.0	75.0		75.0	75.0
141	66.7	66.7	75.0	75.0	75.0	75.	75.0	75.0			75.0	75.0	75.0	75.0	75.0	75.0
1	15.0	15.0		83.3	83.3	63	83	83.3		83.3	3	83.3			83.3	83.3
800	75.0	75.0	83.3	83,3	83.3	83.3	3	1 83.3	3	83.3	3	83.3	83.3	83.3	83.3	83.3
1	15.0	15.0		83.3	83.3	63.3	63.3	83.3	m	83.3	1	63.3	83.3	83.3	83.3	83.3
000	83.3	83.3	7.16	91.7	91.7	91.7	91.7	91.7	-	-	91.7	91.7	91.7	91.7	91.7	91.7
	63.3	83.3		91.7	91.7	91.1	1	1	-	-	91.7	-	41.7	91.7	91.7	91.7
3000	83.3	83.3	91.7	91.7	91.7	91.7	91.7	7.16	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
1	63.3	83.3	11.16	91.7	91.7	91.1	=	1	-	91.7	1.16	41.7	1.16	91.7	41.7	91.
7000	83.3	83.3	91.7	91.7	91.7	91.7	:		-	91.7	1.16	91.7	91.7	91.7	91.7	91.7
	63.3	83.3	41.7	41.7	91.7	91.1	61.1	91.7	-	91.7	91.7	41:1	41.7	91.7	41.7	91.
98	83.3	83.3	91.7	91.7	91.7	91.7	91.1	91.7	-	91.7	91.7	91.7	91.7	91.7	91.7	91.7
	83.3	83.3	91.7	91.7	91.7	91.7	91.7	91.7	-	91.7	91.7	91.7	91.7	91.7	91.7	91.7
1000	63.3	83.3	91.7	91.7	91.7	91.7	91.1	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
	63.3	83.3	91.7	91.7	91.7	91.7	91.	91.7	91.7	91.7	61.7	21.7	91.7	91.7	91.7	91.7
8	63.3	83.3	91.7	91.7	91.7	91.7	91.7	1 91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.1
	63.3	83.3	91.7	91.7	91.7	91.7	91.7	91.7	41.7	91.7	100.0	100.0	100.0		100.0	0001
8	83.3	33.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	100.0	100.0	100.0	100.0	100.0	0.001
	83.3	83.3	91.7	91.1	41.7	91.1	91.	91.7	41.7	91.7	100.0	100.0	100.0	100.0	100.0	0001
8	83.3	83.3	1.16	91.7	91.7	91.7	91.7	91.7	91.7	91.7	100.0	100.0	100.0		10000	100.0
	63.3	83.3	91.7	91.1	91.7	91.	91.	91.7	91.7	91.7	100.0	100.0	100.0	100.0	100.0	0001
8	83.3	83.3	1.16	91.7	91.7	91.7	91.7	91.7	91.7	91.7	10000	10000	100.0	10000	100.0	0001
8	63.3	63.3	91.7	41.1	91.1	91.1	91.	91.7	91.7	41.7	100.0	100.0	100.0	10000	10000	0.001
					•											

TOTAL NUMBER OF OBSERVATIONS

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL MOUNT (1877) DOA

200

CEILING							VISI	VISIBILITY (STATUTE MILES)	LTUTE MILE	(\$)						
(FEET)	01 2	9	\$ 41	4	2 3	2 2%	~ Al	41.1	71 71	-	* AI	* Al	2 Al	\$ 5/16	AI N	0 1
NO CEILING	53.5	54.	55.0	5.			5	3	5.	5.	55.1	5			5	55.9
> 20000	54.8		56.3	56.3				56.8		56.8	57.0	57.0	57.2		57.2	57.2
	54.8	55.	56.3	9		. 9	.9				57.0	:				57.2
16000	36.1	56.	57.6	37.6				8	8	*	58.3		58.5		58.5	58.5
	57.6	58.	59.1	1.65		6	6	6	6	6	88.8	6			0	0000
7 12000	59.6	-09	61.3	61.3		-	-			-	62.1				62.2	62.2
,	4.00	61.	62.1	62.1		2	2.	2.	2.	2.	3		3		3.	63.4
900	62.8		65.1	65.1	99.69	65.6	3		8.59	10			4.99			4.99
1	65.6	68.	69.5	6		0	0		0	0			:			71.2
141	4.69	73.	75.0	75.0	75.5	75.5	3		3	9						77.4
1	10.8	75.	77.2	77.4		89	*		8	6			0			9008
8	71.2	76	77.8	77.9		78.7	6		6	0			80.9			
	71.2	16.	77.8			00	6		6	0			0			
3 8	72.2	77.	78.9	79.1			0	80.6		:						82.1
1	72.7	17.	19.4	6			0			2.						
300	74.2	19	80.9	81.1	82.2	82.2	83.2		3	84.3	84.5	84.5	85.1	85.1	85.1	85.1
1	74.4	19.	81.5			2.	3.	3		4						
7 2000	76.1	81.	84.1	84.5		2	1.	-	-				6			
1	76.1	81.	84.1	84.5		1	-	87.3				58.6				
150	76.5	82.	84.7	85.1	86.5			8					-			91.0
	76.5	82.	84.7			9	8	*		6						
98	77.4	83.	86.0			8	0	0	0				3			95.7
	77.4	63.	86.0		88.4	00	ò	0	0	3.						95.7
8	77.4	83.	0.98	86.4		00	0	0	0				3			62.6
	77.4	83.	96.0	9	4.8	4 88	0	0	0	*	95.5					97.0
8			86.0	86.4	4.88	88.4	0	0	0		95.7					98.3
			0.99		4.88	88.4	0	0	0		95.7		-			6.86
8			86.0	86.4	88.4		0		0	4.46	95.7		97.6		98.7	4.66
	77.4		0.98	96.4	88.4	88.4	ò	0	0	4.46	45.7		91.6		1.86	7.66
38		83.7	86.0	86.4	20060		90.5	0	1.06	4.46	95.7	45.7	7.	98.5		9.66
	17.4	83.7		•	38.4	4 89	0	1.06	0	34.4	45.7		91.6	98.5	99.11	
0			86.0				0		0	;	45.7		91.6			
										-	-				1	

0

0

535

TOTAL NUMBER OF OBSERVATIONS

Ē

SMOS DIRNAVOCEANMET

75.0

15.0

15.0

72.5

72.5

0.01

10.8

8.01

10.8

10.0

0.0

71.7

711.7

711.7

10.8

70.8

2000

AI AI

70.0

20.07

68.3

68.3 70.0

67.5

59.2

59.5 67.5

9000

AI AI

0

2.69

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AI AI

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76.7

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92.5

87.5

87.5

86.7 86.7

84.2

86.7

34.2

79.5

79.2

80

AI AI

19.2

86.7 87.5

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3066

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97.5 68.3

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95.8

fff SEP HONTH

CEILING VERSUS VISIBILITY

HOURS (L S T) 00

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

WAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATION, ANTARCTICA

87601

0

VISIBILITY (STATUTE MILES)

1 2%

M Al

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11

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2

CEILING (FEET)

0

55.0 55.0 57.5 72.5 55.0 58.3 74.2 61.7 62.5 VI VI 57.5 57.5 57.5 57.5 74.2 58.3 55.0 55.0 55.0 55.0 55.0 55.0 65.5 72.5 61.7 55.0 65.5 61.7 61.7 2 55.0 62.5 * 55.0 1.19 65.5 57.5 54.5 56.7 61.7 52.5 54.2 54.2 59.2 59.2 60.8 71.7 ٨I 0.09 55.0 55.3 10.0 55.8 52.5 55.5 52.5 55.8 60.09 70.0 52.5 52.5 55.0 71.7 52.5 0.09 0.0/ 52.5 58.3 59.2 711.7 ۸I

78.3 76.7 76.7 78.3 75.0 74.2 76.7 16.1 75.8 73.3 74.2 75.8 71.7 12.5 14.2

59.5

59.5

55.0 55.0

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55.0 58.3

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58.3

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51.7 51.7

VI VI 0008 1 VI 0009

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NO CEILING

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58.3 59.2

85.8 85.8 84.2 78.3 78.3 78.3 84.2 77.5 77.5 83.3 80.0 80.0 80.8 80.8 83.3 83.3 83.3 85.0 74.2 15.8 81.7 15.8 85.0

74.2 75.8 75.8

74.2

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75.8 15.8

73.3 13.3 79.2

73.3

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71.7

71.7

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73.3

0.06 2.68 2.68 0.06 89.2 89.2 0.06 68.3 89.2 88.3 85.0

81.7

81.7

79.5

78.3

78.3

75.8

15.8

3000

11 11

72.5

13.7

13.7

85.0 85.8

85.0 85.0

82.5 82.5

0.08 80.8

30.0 80.8

77.5 78.3

7.5

78.3

800

AI AI

82.5

82.5

80.0

80.0

77.5

2500

11 11

17.5 77.5

17.5

93.3 95.0 95.8 0.56 93.3 63.3 0.06 92.5 92.5 87.5 92.5 89.2 91.7 85.8 85.0 87.5 87.5 85.8 87.5 87.5

83.3 85.8 85.8

83.3 84.2

80.8 80.8

78.3

18.3

81.7 81.7 81.7 81.7

79.2 79.2

79.2

88

11 11

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83.3

83.3

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89.2 8.06

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63.3 93.3 93.3 92.5 92.5 92.5 86.7 87.5 87.5 92.5 92.5 87.5 87.5 87.5 87.5

87.5

86.7

84.2

84.2

81.7 81.

> 81.7 81.7 81.7

79.2 79.2

79.2

88

AI AI

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84.2 84.2

84.2

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79.2

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ALAI

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MINI

86.7

87.5

86.7

84.2 84.2

84.2

81.7

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79.2

79.2 19.5

88

AI AI

19.2

TOTAL NUMBER OF OBSERVATIONS 87.5

120

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE

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	AI	9	0	62	62	62	63		99		84	84	85		85		88	0	0	90	0	93	95		95	95	95		98	98	96	100
	×	9.0	0	2.0	5.0	2.0	•		6.2		4.5	6.5	8.9	2.9	•		8.7	1.0		0.1	•	3.0		5.8	5.8	2.8	5.8	. 33	7.2	1.2	7.2	3.6
	Al	0	0	0	9	0	•	0	ō	-	00	20	00	00	80	00	00	0	0	0	0	6	0			6		-	6	6	6	6
	5/16	9.0	•	•	•		3.4		6.2		4.5			5.9		•	8.7	0.1		0.1	1.6	1.6		4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.0
	Al	0	0	0	0	0	0	0			00	20	00	8	0	00	0	6	0	0	0	3	0	6	9	5	0	6	0	-	0	6
	Z AI	0	5			2.	3	0		0		:	5	3	3	5		0	0	0	-	-										4.4
	-	9 4	-1	0	0	0		-	2		8	2	0	0	0	6	~		_		•		ò	0	0	0	c		0			6
	AI	00	00	.20			63.		99	9	84.	3	85.	5		3		0		06	16	-	93.	3	3	3	93.	-	93.	3		93.
	*	0 4	-	-	-			1	7	-		-		1		6.		-:	_	~	-			0		-	0	-		-	0	0
	AI	09		29		62		99	99	9			1	85	5		œ		0	06	-	16	m		3		3		63			26
	-	•	•	0	•	•	*		.2				6.			6.		-		-	•		0.		0.		0.	0		0.	0	0
ES	AI	69							99				8		85					80	91			63		-	63	93	93		6	0
VISIBILITY (STATUTE MILES)	7.	6.3	•	•	•				2.0				1.7		1.7			4.5	•	4.5			7.3		6.1		7.3	.3	1.3	.3	7.3	2
TATO	Al	50 10	-	•	5	2	2	9	0	-	00	00	00	00	8	8	30	œ	œ	œ	80	0	8	00	00	æ	00	0	_	1		8
TY (S	2.	6.3	0.0	0	8		9.2	2.0	2.0	1.8	0.3	0.3	1.7	1.1	1:7	1.7	3.1	4.5	4.5	4.5	5.9	2.9	7.3	6.1		6.1	7.3	.3	7.3	7.3	7.3	1.3
SIBIL	Ai	5 2	-			50	2	-	9	_	3	30	8	_				_		5 8	8	8	00		3	3	8	3	80	30	8	2
*	AI	9	•	-				2.	5	=	0	0	-	-	-	-	3	*	;	*	3	3	:	7.	٠						7.	
	-	00	_	2	-	3	8	_	0		50	-	0	9		8	3	8	4	1 8	1 8	1 8	-	8	-	8	œ	8	1 8	8	1	EX.
	1 2%	54.		90	56.	56.	57.	00	09	69	77.	-	78.	78.	78.	78.	80.	81.	81.	61.		83.		63.	63.	63.	63.	83	83.	83.	63.	23
	-	00	1		-			-	•	_	10	-	0.	6	0	6	•	1	1	-	-	-	7.	-	-	-	7.	-	-	~	-	-
	NI NI	54		26		56	57		09	69	77.	17	78	78		78.	80.		-	1	m	83		83	3	63	83	3	83	83	83	EB
	1.	0.0		m		.3	0	9	0.	0	10	47	6.	6.	0		.3			-			-	-	7.	-		-			-1	-
	Al	54		20	3	56	57	9		0	77	-	78		œ	78	0		-	81	603	83	83	83	83	83	83	83	83	83	83	83
	3										.5						6.0		1.	1.	7.	1.1		7.	-	7:			1:1		1:1	-
	Al	54	_1			_		_				_			-													1_		1		1
	•	54.9		4.0	4.9	4.9	6.3	9.2	9.2	7.6	1.9	6.1	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5		7.5
	Ai		- 1			1		1				1						1		1	- 1			1				_		_		1_
	2	54.9	•		*	4.5	6	9.6	9.5	7.6	6.1	0.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.	7.	1.5	7.	.5	77.5	-	77.5	1.5	77.5	77.5
	AI	+-		0	n.	-	10	2		9	7	-	-	-	_		-		_		-	-	-		-		_	1	7	1	_	
N N	(FEET)	CEILING	3	18000	9009	000	12000	0000	9006	900	7000	0005	2000	1500	4000	3500	3000	2500	2000	800	200	1200	1000	8	8	200	8	8	8	300	8	1
1		NO C	11		۸ı		141	1 -	IAI	1	IAI	1	I AI	1	IAI		IAI		A		AI		1 1	٨	M	1	IAI	1	1 11		I AI	1

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

06 MOURS (1.5.7.) SEP

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	2	41	\$ AI	A1	e Al	> 2%	2 4	W 2%	71 71	Ā	% AI	*	2 11	≥ 5/16	× 1	٨١
NO CEILING	0	41.7	3.		3.			44.2			45.	43.0	45.0	45.	45.0	4.5
¥ 20000		41.7	ë	43.3		3	44.2	*	•	3	45.		45.0	45.		45.
	8.04	41.7	3	43.3	43.3				2.44		45.	45.0	45.0	45.	45.0	45.0
N 16000			*	43.3	÷		*		•	'n	43	•	45.0	45.		'n
		44.2	3		•		0		9		*		41.5	*/*		
× 12000	43.3	44.2	3	45.0	3		46.7				47.		47.5	47.		;
		45.8	8	68.3	00		6	6		o	50.		50.0	20.		
8	48.3		-	51.7	51.7	-	2		3	*	53.		3	53.		53.
1	58.3	8.00	3				5	0.59			65.	65.8	65.8	65.		65.
7000	65.5		-	-	-	-	ò		0	ò	0	•	0	10.		-
1	65.50	65.0		67.5	-		ò	0	o	ċ	9	•	10.8	10.		
2000	65.8	68.3	70.8	0	70.8	5	73.3		73.3	75.0	13		75.0	75.	75.0	2
		68.3	0	10.8	0		3		3	2	75.	•	15.0	75.		2
141	68.3	70.8	3	73.3	3		100	15.8	•		79.	79.2	0	79.		
1		10.8	3	73.3		3	5	5	3	6	19.		79.2	6/		80.
300	10.8	73.3	'n				;	0	0	6	83		3	83.		
		73.3	2	15.B		5	6	0	3		83.		83.3	33.		
200	72.5	75.0	-	77.5	•	•	0	=	-	5	86.		0	86.		
1		15.0	:	17.5			0	:	-	2	86.		0	86.		
1500	72.5	75.0	-	77.5				81.7	-	ó	87.		87.5		87.5	
	72.5		:	77.5			0		-	9	87.	87.5	87.5		-	89.
8	73.3	75.8		78.3					2	œ	86	89.2	6		8.06	
	13.3		8	78.3	78.3	•		•	3		00	89.2	89.2		ò	92.
8	73.3	75.8		78.3	•		81.7			æ	89	89.5	6			
	3.	5		78.3				•	2		89		0		91.7	93.
8	73.3	75.8		78.3	78.3	•	81.7		2	*	89.	89.5	0			63
				18.3			81.7		5.		89.		41.7		2.56	95.
00 AI	73.3	78.8		78.3		•			3	8	99		91.7		95.0	
88	73.3	75.8	78.3	78.3	78.3	78.3	81.7	82.5	82.5	8 8 8	89.2	89.2	91.7	93.3	95.8	98.
	3.	75.8	8				61.7				89	89.2	1:16		1.96	
30	73.3	75.8		78.3	78.3	78.3	81.7	82.5	82.5	88.3	89.2	89.2	91.7		7.96	00
1	1		1	1		1	1	1	1							-

TOTAL NUMBER OF OBSERVATIONS

120

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DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

60 sanos SEP

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MILI	(53						
(FEET)	2 1	٥ ٨١	S Al	AI	e Al	≥ 2%	1 2	VI %	71	ĀI	% Al	*	% Al	≥ 5/16	AI	0 11
NO CEILING		67.3	47		47.3	47.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.1	48.7
	- 0	-			. 0		0			3				3	:	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	51.4	2 5		31.4	3.0	510	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
	0	36	56.	56.8	0	9	. 2	80	58.	20	8	8	8	80		
12000	8	58	58.	58.1		58.1			.65		0	8.09	0	0	0	
1	6	59	59.			6	0	0	00	0			7		2.	
0006	3	63	63	63.5		3.		64.9	64.	;		•	9	. 9	•	
1	0	10	70.	0		0	-	71.6	:					4.	:	*
141		7.4	74.	74.3	*	74.3	77.0	77.0	77.			6		6	6	-
		7.8	75.	5	2	3		00	18.	-		2.	2.		2.	82.4
9005	77.0	17	77.	77.0	•	-		79.7	79.			3	3	3.	3	
1		-	11.	-		11.0	6	0		2			3		3	1
141		78	78.	78.4	8	8	-	-			•	8	è	2.	2	85.1
	-	81	81.	-		-		3.		9			-		:	87.8
3000	2	82	82.	82.4	3		3	85.1		-		6	6	6	6	89.2
1	2.	82	82.	\$. 4	3.		3					6	5		6	89.2
7 2000	2	85	82.	2	•	5		86.5		0		:	-	-	:	91.9
	2	82	82.	2	2	2		0		ò		:	:	-	:	61.6
1500	3	83	83.	83.8		3.	87.8	87.8		91.9	•	93.2	9	3	3	93.2
1	3	83	83.	83.8	3	63.8						\$	*		;	94.6
0001	3	83	83.	-		9	:	1.		3.	•	*	;	4.		;
	3	83	83.	83.8		83.8	•	87.8					4.	4.	94.6	94.6
8	3	83	83.	*	3	*	-	-		3			-		-	-
	3	83	63.	500		63.8				=					:	97.3
8	3	83	83.	83.8	:	3	-	-					1.	-	-	97.3
	0	83	83.	83.8		83.8				3.					:	97.3
1 40		83	83.		83.8			87.8	7.				1		8	98.7
38	83.8	83	83		83.8	83.8	87.8	87.8	87.8	93.2	9.76	0.96	97.3	98.7	7.86	98.7
1 20	3	83	83.	3		3.	2	:	:	3.			-			
VI 100		00		83.8	33.00	0	87.8	87.	8.1.8			0.00	91.3	78.7		000
	-	83	63.		83.6		87.8	81.8	:	200	•	•	•		78.7	

TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 mount (1.5.7. SEP

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CEILING							AISIA	VISIBILITY (STATUTE MILES)	ATUTE MILE	ŝ						
(FEET)	2 1	o Al	S AI	7	E A1	2 2%	N AJ	VI 75	¥1 ¥1	Ā	% Al	*	Z AI	≥ 5/16	M AI	N AI
NO CEILING	45.5		45.5	45.5	45.5	45.5	45.5	42.5	45.5	42.5	45.5	43.3	43.3	43.3	43.3	43.
> 20000	45.5			3	3.			3		3				•	:	**
≥ 18000	45.5				3			43.3						•	44.2	**
2 16000	2.44			*	3					2	3				•	45.
	47.5									00						49.2
¥ 12000	20.0			0	0		ċ	0		0	•					51.7
1 "	55.5			2.	4		4			4	4					2
8	55.8			3	-											58.3
	66.7			0			8									0
700	72.5				74.2			75.0			75.0			75.8		75.8
1	13.3			3	3		K	5		3	2					9
2000	75.0				-		2			00	8					0
1	15.0			5						*	8					79.5
141	76.7			-	6		0	0		ċ	0					0
1	17.5			80	0			0		0	0					-
3000	90.0			-	83.3		*	*		4	;					85.0
1	80.8			3.	3			5		3	2					9
7 2000	80.8			2	3		5	5			2			•		86.7
1	80.8			2			5	5		5	3					0
1500	80.8			82.5		65.0	5	85.8			5	86.7				
	80.8			~							85.8					9
141	80.8			~	i		5			•	.0					88.
	80.8			3						w						900
8	80.8			3	i		-	-	•	ċ	:			•		0
	80.8				5	5		-		0						-
8	80.8				85.8	5	:	-		ċ	91.7					
	80.8															
8	80.8					85.8	87.5	87.5	87.5		91.7			•	1006	
	80.8			83.3	85.8	5				0	41.1					97.5
200	80.8			3		2	•	-	•	ċ	41.7					97.
8	80.08	81.7	83.3	83.3	85.8	85.8	87.5	87.5	87.5	9006	1.16	0.56	95.8	95.8	97.5	2.66
	9000			3		n		:	•	0	1.1.			• 1	2110	000

TOTAL NUMBER OF OBSERVATIONS

120

87601 STATION

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) HURDO STATION, ANTARCTICA

WAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

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87601

YEARS

HOURS (L S T 15

SEP

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TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

18 SEP

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TOTAL NUMBER OF OBSERVATIONS

120

1881

SMOS DIRNAVOCEANMET

97601 STATION

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VISIBILITY (STATUTE MILES)

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SEP

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) MURDO STATION, ANTARCTICA

CEILING VERSUS VISIBILITY

TOTAL NUMBER OF OBSERVATIONS

98.6

SMOS DIRNAVOCEANMET

VAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

Z Z

87601

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

73-76

YEARS

SEP

TOTAL NUMBER OF OBSERVATIONS

770

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDE STATION, ANTARCTICA

87601 STATION

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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TOTAL NUMBER OF OBSERVATIONS

124

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MUNDO STATION, ANTARCTICA

73-76

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PERCENTAGE FREQUENCY OF OCCURREN	(FROM HOURLY OBSERVATIONS)

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	*	0 1	r	0		0.	4.	.7	9.	0.		-	-	6	9.	7.		0	9.	.2	0		7.		7.	7.	7.	7.	0 1.	10.	010	010
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	2 5/16	6.64	5	51.3	2.	53.0	57.4	61.			14.8	78.3	18	80.0	81.	85.2		88	88	91.	92.2	93.9	98.	98.3	98.	98.			98.		98.3	00
	Z Z	80.6	,	51.3		53.0	-	-	9.69			78.3	78.3	80.0	:	85.2				6116	92.2	3	8	00	98.3						68.3	98.3
	* Al	50.6	5	51.3	2.	3	-	61.7	0			78.3	78.3	80.0	81.7	85.2		88.7	38.7	91.3	N	63.6			6.86		98.3			98.3		98.3
	AI	49.0	5 -	51.3			51.4	-	9.69		14.8	78.3	78.3	•	80.9	84.4	-	87.8	87.8	4.06	61.3	93.0	94.8	*		8.46	8.46		8.56	8.46	94.8	8.46
(S	-	49.6	5	: .:		53.0		-	9.69	*	13.9	77.4	77.4	79.1	80.0			•	86.1		88.7	4.06	4.06	0	0	4.06	4.06				4.06	
TUTE MILE	¥1 ¥	9.65	5 -	51.3		53.0	31.4	2.19	9.69			77.4	17.4	79.1	0	82.6	85.2	•	1.98	87.0		9.68	9.68	•	9.68		9.68	6		6	9.68	
VISIBILITY (STATUTE MILES)	۷۱ ۲۷	9.64	-	51.3		53.0	57.4	-			13.9	77.4	1.	79.1				86.1	86.1	87.0	87.8		89.0	89.6		89.6	89.6	6	•	-		89.0
VISI	7 7	9.65	5	51.3				-	9.69	73.0		77.4	17.4	6	0	82.6		86.1	86.1		-	9.68	89.6		9.68	6	89.6	.6				89.6
	2 2%	9.0	-	51.3		3	57.4	-	9.69		13.9	77.4	17.4		0	82.6	5	85.2	2.50			87.8	8.16	87.8		87.8		-		87.8		-
	e VI	9.64	5 -	51.3	2.	53.0	57.4	61.7	6	73.0	13.9			19.1				85.2	85.2		:	87.8	87.8	87.8	:	87.8		81.8	87.8	-		87.8
	4	9.64	-	51.3		53.0	57.4	61.7	9.69	73.0	13.9	77.4	77.4	10.64	80.0	82.6	85.2	85.2	85.2	w.	86.1	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
	49 Al	49.6	•	• •				•		-	•					•				85.2		86.1	:	86.1	86.1	86.1	86.1	86.1	1.08	86.1	1.98	1.98
	۰ ۸۱	9.65			~	ā		7	5	0		*	-	_	0	•	~	~	2	N	N	~	N	N	0	~	~	~	~	2	~	~
	5	9.64		100	~	~		1	•	6	-		-	~	-	1				*		•	3	•		*	-			*		
CEILING	(FEET)	NO CEILING	2000	0009	7 14000	12000	1 -	0006 ~		7000	1	2000	1	1 41	1	3000	1	2000	1	141	1	900	1	8	1	8		141		141	8	1

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TOTAL NUMBER OF OBSERVATIONS

0

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SMOS DIRNAVOCEANMET

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

06 HOURS (1 S T) DC.

3408

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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TOTAL NUMBER OF DESERVATIONS

124

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

00 HOURS (1.5.T.) 100

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CEILING							VISI	VISIBILITY (STATUTE MILES)	TUTE MILE	(\$						
(FEET)	2 41	o Al	\$ 1	*	6 41	≥ 2%	2 41	VI 74	¥1 VI	-	₹ Al	* 1	X Al	≥ 5/16	NI NI	0 11
NO CEILING				0	0	0	ò	0	0	0	0			0		50.9
> 20000			50.9	0	20.9	0	0	6.05	6.09	0		80.9		50.9		50.9
				-		-		-		-		-		-		51.7
> 16000	51.7		51.7	51.7	51.7	51.7	51.7	51.7	21.1	51.7	51.7	51.7	21.7	51.7	51.7	
				*			;			4.				*		54.3
12000				57.8	-	-	57.8	-				-		1.		57.8
				60.3	0	.0	0	0		0		0				60.3
0006				4		4	4.7			5		4.99		9		4.99
1				643	3.	3	3.3			5				9		76.7
7000				76.7	76.7	76.7	. 1	77.6		79.3		80.2	80.2			80.2
				-	-	-	1.6			0		:				81.0
2000				-	:	-	0.			3				;		
				-		-	1.0									84.5
141				~	3	N	5.8			5		•				86.2
				0	2.	2	2.8			3.						86.2
3000				4	•	*	4.5			-		61.9		•		88.8
1				3		5										89.7
7 2000				-	-	-	4.6			0		-			92.2	92.2
				-			5.			0		-			92.2	92.2
1500				-			8.3		89.7	-		2.			93.1	
				-	87.9	-	8			-		2				93.1
1000				88.8	8	8	4.4				•	4			95.7	95.7
			•	8	88.8	8				5						95.7
00 8 A	•			00	8	8	4.4			5.	•		0	9	•	90.96
				88.8	*	88.8	2.5						:		•	4.76
00							1.6		•	5	•	95.7	•	-	4.16	97.4
			•	88.8	88.8		89.7	0				12.56	•	4.16	97.4	97.4
7 400	•							0					8	8	98.3	98.3
300	86.2	86.2	88.8		88.8	88.8	89.7	90.5	60.0	92.2	2.26	90.06	1.66	1.66	1.66	99.1
							89.7	0		5	•	•		1.66	1.66	1.66
٧١ 8			000				2.68		20.0	2.26		0.00	1.00		1.00	1066
	• [0 . 0 0	000		200	30.0	•	. 7	•	2000	1	14.1	1.4	000

TOTAL NUMBER OF OBSERVATIONS

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DIBNAVOCEANMET SMOS

87601 STATION

124

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 DCT HOME

CEILING							VISI	VISIBILITY (STATUTE	ATUTE MILES)	ES)						
(FEET)	5	3	SO AI	AI AI	e vi	2 2%	2 4	۲۱ ۲۲	VI 74	-	× Al	* AI	Z AI	≥ 5/16	N AI	0 11
NO CEILING	20				6		6	6		6	6			6		6
> 20000					50.8		0	0		ò	0	8.05	0	50.8		50.8
	0			0	0		ò	0		ċ	0		0	0		
N 16000	0			0			•	-		=	:	=	-			
				4	*		4			5	2	2	5	5		
12000				55.7		56.5	56.5	56.5		57.3	-	57.3	1.	-	57.3	57.3
-	30			6			-	-:		2.	3	2.	7	2.		
000	5			•	-		-			6		6				4.69
1	2			133			3	5		-						
141	4			10	•			-		6	6	6	6	6		0
				3	-		-	8		6	0	0	0	0		
2000						78.2		6			-	81.5	:	-		81.5
1					8		8.			0	:	-	:	-		
141				8			6	0			3	3		3.		3
				-			3.	3		9		:				
3000					•	84.7		5			8	8	8	8		
1				50	5		5.	0		8	6	6	6	6		
7000				84.7	86.3	86.3	87.1			-	-		92.7		92.7	
							:	80		-	-	2.	2	2.		
1500					-		8	0			;	8	3	3	95.2	
				*			80	0			*	5	2	3		
V 1000					•	•	8		•	3.	;	-	1.			
				5		87.1		0		3.	3					
8 Al					87.1	87.1		0			è	8	8	8		
						87.1	88.7	0		3	3	80		8		
9					87.1	87.1		0			2				99.2	
				5	•	87.1		0			0	6		0		
141	2.			85.5	87.1	87.1		0		*	3					
				85.5	87.1	87.1	88.7	90.3			95.2	•	0	100.0	0.00	0000
N 200	2				87.1	87.1		0			2	6	6	0		
8	82.3	85.5	85.5	65.5	37.1	67.1	88.7	600	600	93.6	95.2	2.66	2.66	00001	0.00	0.00
	2	•			87.1	87.1	_		•		6			100.001	•	00.00

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15 HOURS (4 5 7)

CEILING							VISI	VISIBILITY (STATUTE	ATUTE MILES)	ES)						
(FEET)	21	9 Al	8 41	AI AI	e vi	2 2%	2 41	71 71	VI 3.	Ā	% AI	*	2 1	2 5/16	21	٥ ٨١
NO CEILING			:	0		46.6					40.0	40.0	6	46.6	6	46.6
× 20000					-	-	41.4		-	•		-	-	-	-	-
				2	48.3		8	20	8	8		48.3	2	*		48.3
2 16000				20.0		ċ	50.0	50.0	•	ċ		0	0	0	0	50.0
				2.		52.6	2.	2.	2	2		9576	7		7	52.6
> 12000	54.3			4		4	54.3		*			;		4	;	54.3
1				00	58.6		8			00		6	6	6		
0006			4.99	4.99	;	4.99	4.99					67.2	67.2	67.2	67.2	67.2
1				0	9			-		8			6	6	6	6
7000				6	6	0	ò	80.2	0	-		2	2.	3		5.
1	1 .			0	0	0	-	1:	-	2.						3
2000				81.0		81.0	82.8	2	2				0	0		86.2
1				81.9	-	-	3			30		86.2	-			-
1 11				83.6			85.3	85.3	ŝ			-	8	8		88.8
1						3	•	0	0	8		5006	:			-
3000			34.3	85.3	85.3	65.3	87.1	87.1	87.1	89.7		91.4	2.26	N		92.2
1					5	5	-		-	0		2.26				93.1
7 2000					85.3	5	6		6				2			100
1				85.3	85.3	3	6		6	92.2			5	2		2
1500					•		0	0	0	•		3	0	•		96.6
				0		.0	0		0			•	9			0
1000				87.1	-			92.2	3		•	-	3	•	68.3	98.3
				87.1	87.1		:	2.	2.					8		98.3
80		•			67.1	87.1	-	2	3	*		-		8		98.3
			86.2		-	87.1	-	2	5.	*		•	20			98.3
8		•		87.1	-	87.1	4.16	2.	2 .	8. 76		91.4		8		98.3
			86.2	87.1	87.1	87.1	-1		5	. 4		91.4	6	99.1	•	1.66
141		•		87.1	87.1	87.1	4.16	•	5.		•	97.4	99.1	99.1	99.1	99.1
					87.1	87.1	41.6	2.26	2.	1000		41.4		99.1	1666	99.1
700		•	•	87.1	87.1	87.1	-	•	5			97.4		6	1.66	66.1
8	83.6	83.3	36.2	87.1	87.1		91.4	2.26	92.2	94.8	90.0	97.4		0.001		000
۸۱	•			87.1	-	87.1	4.16	•	2	•		31.4	1066		00.00	0000

TOTAL NUMBER OF OBSERVATIONS

116

1881

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

87601 STATION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1 8 HOURS (LST) DCT HONTH

CEILING							VISIA	VISIBILITY (STATUTE MILES)	ATUTE MILI	£3)						
(FEET)	VI 02	9 11	\$ AI	41	8 1	≥ 2%	2 41	VI 2/2	×1 ×1	- AI	× AI	* AI	Z AI	≥ 5/16	AI	٨١
NO CEILING	0.04	0.94	46.0		0.94	0.94	46.0	0.04	0.94	46.0	46.0	0.04	0.04	46.0	0.05	46.0
20000				0.04	40.0	0	•		000	40.0		•		•	•	00
N 18000				•	•	0.14	•	:	•	47.6	4.04		40.4	4.04	400	400
				1.	-	-	-		1.	47.6	8	8		•	8	48.4
				-		-		-	51.6	51.6	52.4	52.4	2.	52.4	52.4	52.4
> 12000			24.0		4	4	*	;	;	54.0	;	54.8		•		54.8
1				00	8	00	8	8		8	6	6	6			59.7
000					67.7	1.	-	-		67.7	8	9.89	8	9.89		68.6
				3		5	5	5		0			-			77.4
7000				00		8		8	•		19.8	79.8	6			19.8
1				00	*	8	6	6	6	6	0		0			80.7
2006				~		2			•	3	84.7	84.7	*	;		84.7
1				2.	2	2		3.	3		4		*	84.7		84.7
1 1					•	3		1		3	3	85.5	5	5		
				4	*	4	5	5	5	.0	87.		-			
3000			87.9	87.9	87.9	87.9	88.7		8	89.5		90.3	0		90.3	90.3
1				-	1.	7.	8		8	6	-06	0	0	0		
7000				00	89.5	6	-		-	-	2		3			
				80		6		-	-	-	2	3	6	3		
1500			89.5	80.3	-	-	2		92.7		4.46	95.2	5			
				0	-	-			3			2	5	S		95.2
100					91.1	91.1	2		3	*			3	3		
			89.5	90.3	91.1	-	92.7	92.7				2	2	95.2		95.2
8				0	91.1	91.1			2		;	5	2			
				0	1	-	92.7				4	3	0			
8					91.1	91.1			3			5	;	•		0.96
				0	91.1	91.1		92.7	2		4	2	0			
141			89.5	8006	91.1	91.1	92.7	92.7	92.7		4.46	0.96	96.8	•	91.6	97.6
			89.5	60.3	91.1	91.1		92.7	5.				.0			4.86
30					91.1	91.1		92.1	92.7		;		0	97.6	4.86	98.4
	87.9		89.5	6.06	1.16	91.1	1.76	45.7	92.7	93.6	5.46	0.96	91.6	7.86	0.001	0.001
٥	7		89.5	6006	91.1	91.1	92.7	92.7	92.7	3.	•	•	91.0	98.4	0000	0000

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601 STATION

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21 21 HOURS (1.5.7.)

0

TOTAL NUMBER OF OBSERVATIONS

116

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDE STATION, ANTARCTICA

87601 STATION

0

0

0

0

0

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS (1 5 T.) DCT

210 26 28 22 24 23 220 22 20 20 20 20 20 20 20 20 20 20 20	CERING							ISIA	VISIBILITY (STATUTE	ATUTE MILES)	[S)					
49.2 49.2 49.2 49.2 49.2 49.2 49.3 49.3 49.3 49.3 49.3 49.3 49.3 49.3	(FEET)					1					-		1000	8	1	
7000 49.8 49.8 49.8 49.8 49.8 50.0 50.0 50.0 50.0 50.0 50.0 50.1 50.1	NO CEILING	64	49.		6	6	6	6	6	6	6	6		6	9.	49.4
10.000 50.4 50.4 50.4 50.5 50.5 50.5 50.5 50.5 50.6	≥ 20000	49.	49.		6	0	0			0	0	0		0	0	50.2
10,000 10,			50.		0	0	0	0	0	0	0	0		0	0	50.7
10000 55.0 55.0 55.0 55.0 55.0 55.1 55.1			50.		0	0	0	-	:	-	=	-		-	-	51.2
10000 55.0 55.0 55.0 55.0 55.1 55.1 55.2 55.2 55.4 55.5			53.			3	3.	3	3	3	3.	3		3	3	
10000 57.9 58.0 58.1 58.1 58.2 58.4 58.4 58.4 58.6 58.6 58.6 58.8 58.9 58.9 58.9 58.0 58.8 58.9			55.		10	5	5	3	5	5		3		5	3	3
0000 63.8 63.9 64.3 64.3 64.7 64.8 65.1 65.1 65.2 65.7 65.9 65.9 65.9 65.0 65.0 65.0 65.0 65.2 65.2 65.2 65.2 65.2 65.2 65.2 65.2	1 -		58.		8	8	00	8	80	8	8	8		8	6	6
70.0 71.1 71.1 71.7 71.7 72.1 72.1 72.4 72.6 72.8 73.8 74.0 74.2 74.4 74.4 74.5 74.5 74.5 70.0 74.1 71.1 71.7 71.7 72.1 72.4 72.4 72.4 72.8 72.8 73.8 74.0 77.6 77.6 77.6 77.6 77.6 77.6 77.6 77	1000		63.		*	*	*	;	5	5	5	5		5	;	0
76.00 74.1 74.4 75.1 75.1 75.4 75.4 75.4 76.1 76.1 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77			71.		-	2.	2	2.	2	2.	3	*		4	*	;
75.0 75.2 75.2 76.3 76.3 76.4 77.2 78.5 78.6 79.4 79.6 79.1 81.5 79.4 79.6 79.6 81.5 81.5 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.3 84.3 86.3 86.3 86.4 86.3 86.4 86.3 86.4 86.3 86.4 86.3 86.4 86.3 86.4 86.3 86.4 86.4 86.4 86.4 <th< td=""><td></td><td></td><td>74.</td><td></td><td>10</td><td>3</td><td>3</td><td>5</td><td></td><td>9</td><td>-</td><td>-</td><td></td><td>8</td><td>8</td><td>8</td></th<>			74.		10	3	3	5		9	-	-		8	8	8
77.2 77.4 78.3 78.4 78.8 78.6 78.8 79.4 79.6 79.6 81.0 81.5 81.9 82.1 82.2 82.4 82.5 82.0 48.2 82.0 77.5 77.7 78.6 78.7 79.1 79.7 80.1 80.1 81.3 81.9 82.2 82.4 82.5 82.7 82.0 82.0 77.5 77.7 78.6 10.1 80.1 80.2 83.0 83.0 82.6 82.5 82.7 82.0 83.0 81.5 82.8 84.8 85.2 83.2 83.2 83.2 83.0 83.0 83.5 83.0 83.0 83.0 83.0 83.0 83.0 83.0 83.0			75.		9	9	9		-	-	8	8		6	6	6
4500 77.5 77.7 78.6 78.7 79.1 79.1 79.1 80.1 80.1 81.3 81.9 82.2 82.4 82.5 82.7 82. 400. 100. 100. 100. 100. 100. 100. 100			77.			8	*	6	6	6	-	-		2	2	2
78.5 79.4 80.1 80.2 80.7 81.2 82.2 82.2 83.2 83.2 84.8 85.0 83.0 83.0 83.0 83.0 84.2 84.2 84.3 84.5 84.5 85.0 83.0 83.0 83.0 83.0 83.0 83.0 83.0 83			77.			6	6	6	0	0	=	-		2.	2	2
3500 61.5 82.8 64.2 84.3 85.1 85.1 85.1 86.0 86.4 86.0 88.8 89.9 86.1 86.2 86.4 86.0 30.0 61.5 82.8 84.2 84.2 84.3 85.1 85.1 86.0 86.4 86.0 88.8 89.7 90.1 90.4 90.7 90. 90. 90. 92.2 83.4 84.9 85.0 85.7 85.7 86.7 86.7 86.7 86.8 86.8 89.8 90.5 91.4 92.1 92.4 92.5 92.7 92. 92.0 83.3 84.6 84.1 85.0 85.7 86.7 86.7 88.3 88.8 86.8 89.8 91.4 92.1 92.4 92.5 92.7 92. 92.0 83.3 84.6 86.8 87.1 86.2 88.2 90.8 90.9 99.8 91.8 92.1 93.4 93.7 97.8 94.5 94.1 94.5 94.8 94.5 86.8 87.1 88.2 88.2 90.9 90.9 90.9 93.1 94.9 97.0 97.2 97.7 97.8 97.8 90.0 83.5 84.8 86.8 87.1 88.2 88.2 90.3 90.9 90.9 93.1 94.9 97.0 97.3 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2			79.		0	0	0	-	-	-		3		*	;	*
3000 81.5 82.8 84.2 84.3 85.1 85.1 86.0 86.4 86.4 88.6 89.3 89.6 89.7 89.9 89.9 89.0 82.2 83.4 84.9 85.0 85.8 85.8 86.9 87.3 87.3 87.3 87.3 87.3 87.3 90.1 90.4 90.5 90.7 90.1 90.4 90.5 90.7 90.2 20.0 82.8 84.1 85.6 85.7 86.7 86.7 88.8 88.8 88.8 90.5 91.4 92.1 92.4 92.5 92.7 92.7 92.8 82.8 84.1 85.6 85.7 86.7 86.7 88.5 88.8 80.8 90.5 91.4 92.1 92.4 92.5 92.7 92.7 92.9 94.1 85.8 86.8 87.1 88.2 86.2 90.8 92.9 91.8 92.7 93.4 93.7 93.9 94.1 94.5 94.1 94.2 94.1 94.1 94.2 94.1 94.1 94.2 94.1 94.1 94.2 94.1 94.1 94.2 9			80.		-	2.	2.	2	5	3	3	2		0	0	0
2200 62.2 83.4 84.9 85.0 85.7 86.7 86.7 88.8 88.8 90.5 91.4 92.1 92.4 92.5 92.7 92.8 84.1 85.0 85.0 85.7 86.7 86.7 88.8 88.8 90.5 91.4 92.1 92.4 92.5 92.7 92.8 92.8 84.1 85.0 85.7 86.7 86.7 88.8 88.8 90.5 91.4 92.1 92.4 92.5 92.7 92.8 92.8 84.1 85.0 85.7 86.7 86.7 88.8 88.8 88.8 90.5 91.8 92.7 93.4 93.7 93.9 94.1 94.5 94.1 94.1 94.1 95.8 84.6 86.8 87.1 88.2 88.2 90.8 90.9 93.1 93.9 94.1 95.8 94.2 94.3 94.5 94.1 94.1 94.1 95.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 94.1 95.2 97.0 97.2 97.2 97.2 97.0 93.5 84.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 97.0 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8			82.		4	5	5			9		8		6		0
2000 82.8 84.1 85.6 85.7 86.7 86.7 86.3 88.8 88.8 90.5 91.4 92.1 92.4 92.5 92.7 92. 180. 82.8 84.1 85.6 85.7 86.7 86.7 88.3 88.8 86.8 90.5 91.4 92.1 92.4 92.5 92.7 93.9 92.7 93.9 92.7 93.9 92.7 93.9 94.1 94.1 94.1 94.1 94.1 94.1 94.1 94			83.		5	5	50	0	-	-		6		0	0	1.06
1300 82.8 84.1 85.0 85.7 86.7 86.7 88.3 88.8 88.8 90.5 91.4 92.1 92.4 92.5 92.7 92.1 94.1 1500 83.3 84.6 86.8 87.1 87.7 87.7 89.4 89.9 91.8 92.7 93.1 93.4 93.7 93.9 94.1 94.1 94.1 94.2 86.3 86.6 87.1 87.7 87.7 89.2 90.0 90.0 97.0 94.1 95.2 95.7 95.8 94.2 94.3 94.5 94.1 94.1 95.2 95.7 95.8 94.1 94.1 94.2 83.5 84.8 86.8 87.1 88.2 88.2 90.3 90.9 90.9 93.1 94.9 94.1 95.2 95.7 95.8 96.0 90.9 93.1 94.9 96.7 97.3 97.5 97.7 97.8 98.2 97.0 97.2 97.8 98.2 98.3 98.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 97.0 97.8 97.0 97.5 97.7 97.9 98.1 98.2 98.3 98.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 97.0 97.8 98.0 99.0 99.2 99.1 94.9 97.0 97.8 98.0 99.1 99.1 99.2 99.1 99.2 95.0 97.4 98.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.8 99.8 99.8 99.8 99.8 99.8 99.8 99			84.	•	5	;	0			8	ò	:		2	5	92.7
1300 83.3 84.6 86.3 86.6 87.6 87.6 89.4 89.9 91.8 92.7 93.4 93.7 93.9 94.1 94.1 94.2 94.3 84.6 86.3 86.7 87.7 89.5 90.0 90.0 92.0 93.1 93.9 94.2 94.3 94.5 94.1 96.3 83.5 84.8 86.8 87.1 88.2 88.2 90.3 90.9 90.9 93.0 94.1 95.2 95.7 97.8 96.0 96.0 96.0 83.5 84.8 86.8 87.1 88.2 88.2 90.3 90.9 93.0 94.1 94.9 97.0 97.2 97.2 97.2 97.3 87.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 97.0 97.3 97.5 97.7 97.8 98.1 98.2 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.1 98.0 98.2 99.0 99.3 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.8 99.0 99.3 99.3 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.5 99.3 99.3 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.5 99.3 99.3 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.5 99.3 99.3 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.5 99.3 99.3 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.5 99.1 99.5 99.1			84.		85.7	9	9	8	8	8	0	-		2	2.	92.7
1300 83.5 84.6 86.8 87.1 88.2 88.2 90.8 90.8 92.9 94.1 95.2 95.7 95.8 96.0 96.8 90.8 92.9 94.1 95.2 95.7 95.8 96.0 96.8 90.8 83.5 84.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 96.7 97.3 97.5 97.7 97.8 96.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 96.7 97.3 97.5 97.7 97.8 96.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 96.7 97.3 97.5 97.7 97.8 98.8 98.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 96.9 97.0 97.8 98.8 98.8 98.8 98.8 98.8 98.8 98.8			84.		9	-	-	6		6	-	5.		33	;	
93.5 84.8 86.8 87.1 88.2 88.2 90.8 90.8 92.9 94.1 95.2 95.7 95.8 96.0 96.9 96.5 83.5 84.8 86.8 87.1 88.2 80.3 90.9 93.0 93.0 94.7 96.3 96.9 97.0 97.2 97.9 93.5 84.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 96.7 97.3 97.5 97.7 97.9 98.1 98.2 83.5 84.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 97.0 97.8 98.0 98.2 98.3 98.5 84.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 97.0 97.8 98.0 98.0 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.1 98.0 98.4 98.6 99.0 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.0 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.0 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 99.0 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 100.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 100.0	1		84.		9			6	0	0	2.	3		*	*	*
900 83.5 84.8 86.8 87.1 88.2 88.2 90.3 90.9 93.0 94.7 96.3 96.9 97.0 97.2 97.7 97.8 90.9 93.1 94.9 96.7 97.3 97.5 97.7 97.9 97.1 98.2 88.2 90.3 90.9 93.1 94.9 96.7 97.3 97.5 97.7 97.9 98.1 98.2 83.5 84.8 86.8 87.1 88.2 88.2 90.3 90.9 93.1 94.9 97.0 97.8 98.0 98.2 98.3 98.5 84.8 86.8 87.1 88.2 89.4 91.0 91.0 93.2 95.0 97.1 98.0 98.4 98.6 98.8 99.0 99.3 83.5 84.8 86.8 87.1 88.2 89.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.0 99.0 93.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.0 99.0 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.2 99.0 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 90.0 97.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 100.			84.		-	8	8	0	0	0	5	;		5	•	0
83.5 84.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 96.7 97.3 97.5 97.7 97. 63.5 84.8 86.8 87.1 88.2 88.2 90.9 90.9 93.1 94.9 97.0 97.9 98.1 98.6 98.2 98.3 83.5 84.8 86.8 87.1 88.2 90.4 91.0 91.0 93.2 95.0 97.1 98.0 98.4 98.6 98.3 98.5 84.8 86.8 87.1 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.8 99.0 99.0 93.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.2 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.0 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.0 99.0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 90.0			84.		-	8	900	0	0	0	3.	;		-	-	:
700 83.5 84.8 86.8 87.1 88.2 90.3 90.9 90.9 93.1 94.9 97.7 97.9 98.1 98.2 98.2 98.3 98.2 98.3 98.2 98.2 98.3 98.3 98.3 98.3 98.3 98.3 98.3 98.3			84.		-	8	8	0	0	0	3	;			-	:
300 83.5 84.8 86.8 87.1 88.2 90.9 90.9 93.1 94.9 97.0 97.0 97.0 98.2 98.2 98.2 98.2 98.2 98.2 98.2 98.2 98.2 98.2 98.2 98.2 98.2 98.2 98.3 98.3 98.6 98.0 99.0			84.			8	8	0	0	0	3.	;		-	8	98.1
300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.1 98.0 98.4 98.6 98 300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.2 99 300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.2 99 300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 99 300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 99			84.			8	8	0	0	0		;			8	8
300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.3 98.3 98.8 99.0 99 300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.2 99 300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.3 99 300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 99			84.			8	00)	.0	-	-	3.			0	8	00
300 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.2 200 83.5 84.8 86.8 87.1 88.2 86.4 91.0 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			84.			8	8	0	:	:	3.	3		8		0
200 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.4 98.9 99.3 100 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.61 99.61			84.			8	8	0	:	:	3	2			6	99.3
0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.6			84.			8		0	-	-	3	2	•	8	6	4.66
0 83.5 84.8 86.8 87.1 88.2 88.2 90.4 91.0 91.0 93.2 95.0 97.4 98.5 99.1 99.01		3.	84.			8		.0	:	:	3	2			6	99.8
		3	84.			8		0	-	-	3	2		99.1	6	0000

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NDV 000 000

200

	AI	8 50.	7 51.	0 55.	0 55.0	3 58.	3 58.	0	0	5 77.	00	œ	8	8	8	0	0					2 94.	8 95.	8 95.	•	7 96.	5 97.	3 98.	3 98.	3 98.	3 99	3 99.
	VI 7														86.															86		86
	≥ 5/16	0	1.	5	5	58.3	8		6	77.5	-	3.	3	5	86.7		-	3.	;	;	;	;			96.7				98.3	98.3	98,3	98.3
	Z AI	0	-	5	3	8	8		6	77.5	:	3	2	2	9	0	:	3	;	*	*	;	5	95.8	1.96	46.7	97.5		98.3		98.3	98.3
	*		1:	3	2	•	8			77.5	:	3.	3	5		0	:	3.	;	;	;	;	2	2	1.96				1.96	1.96	1.96	1.96
	× AI	0	:	3	5	8	8	2	6	77.5	-	3	3	2	•	0	-	3	;	;	;	;	3	5	;	•	•		•		0	
<u>s</u>	-	0.8		5.0	2.0		8.3	7.5	8.5	77.5	1.7	3.3	2.0	5.0	2.9	0.0	1.1	3.3	4.2	4.2	2.4	2.4	2.0	2.0	2.0	8.0	5.0	8.0	2.0	0	5.0	3
TUTE MILES	¥1 VI	8.06	:	5	5	58.3	8	2	6	77.5	1.7	3.3	5.0	5.0	2.9	0.0	1.7	3.3	4.2	4.2	7.5	4.2	2.0	5.0	2.0	5.0	2.0	5.0	2.0	2.0	5.0	0
VISIBILITY (STATUTE	VI %1		-	S.	•	58.3			6	77.5	-		3			0	-	3	;		•		5	5		s.	5	3	5	0.56	2	95.0
VISIB	2 2	8.0		5.0	55.0		•	7.5	8.5	77.5	1.7	3.3	2.0	5.0	4.9	0.0	1.7	3.3	2.4	2.4	7.5	4.2	0.5	5.0	2.0	5.0	2.0	3	3		5	
	2 2%		-	5	5	8	8	-	6	77.5	-	3	3	15.		0	:	3	4	4	\$	4.	*	4	*	4	*	*	. 4	. 4	*	
	6 11	0						7.5	9.5	77.5	1.7	3.3	2.0	5.0	1.9	0.0	1.7	3.3	4.2	4.2	4.2	4.2	7.4	4.2	4.2	2.4	4.2	4.2	4.2		4.2	4.2
	7	50.8		3					6	77.5	-	3	3	5	.9	0	0	2.	3.		3	3.	3	3.						63.3		63.3
	\$ 1	50.8	-	5	3	8.		-	6	77.5	-	3	3	5		0	0	2	ë	3	ë	3	3	3	3		3	3.		3	3	3.
	٥ ٨١									77.5																						
	5	0	-	5	5	8	00	-		77.5	:	-	3			0	0	2	-		m	3	~	3	3			93.3	93.3	63.3	93.3	93.3
CEILING	(FEET)	NO CEILING	≥ 20000		00091 ₹		≥ 12000		000	1	N 1000	1	2000		0007		3000		≥ 2000		> 1500		1000		8		8		8		7 200	901

TOTAL NUMBER OF OBSERVATIONS

120

87601 starion

S Z

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

HURDO STATION, ANTARCTICA

73-76

(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF OCCURRENCE

L S T) SUNON >0x HONTH 60

Ē

98.3100.0100.0 98.3100.0016.89 56.3 56.3 ٨١ 9116 2.66 2.66 84.0 97.5 24.6 77.3 82.4 82.4 82.4 82.4 2.66 2.66 52.1 8.69 81.5 81.5 84.0 97.5 3066 2.66 99.2 50.4 94.1 87.4 87.4 1.46 58.8 1.49 1.46 85.7 AI 84.0 91.6 9096 98.3 24.6 50.3 56.3 58.8 84.0 96.6 50.4 98.3 52.1 8.69 98.3 77.3 1.46 98.3 85.7 94.1 1.46 98.3 98.3 98.3 2 5/16 24.6 58.8 84.0 87.4 91.6 90.96 98.3 6.86 98.3 6.86 50.4 8.69 1.75 84.0 1.46 90.06 98.3 81.5 81.5 98.3 6.86 98.3 98.3 98.3 11.3 85.7 94.1 1.56 6.86 64.1 81.5 97.5 5.16 24.6 56.3 56.3 56.3 87.4 11.3 84.0 84.0 91.6 9.96 97.5 95.8 95.8 97.5 97.5 97.5 97.5 85.7 97.5 97.5 97.5 58.8 8.69 1.76 9096 97.5 1.26 1.56 94.1 * 17.3 81.5 82.4 84.0 84.0 87.4 87.4 91.6 6.76 97.5 97.5 6.16 90.96 61.5 97.5 97.5 8.69 1.46 50.4 52.1 24.6 58.8 1.46 96.6 97.5 97.5 97.5 1.46 85.7 % Al 82.4 9.96 77.3 84.0 95.8 95.8 97.5 50.4 85.7 916 97.5 97.5 24.6 81.5 81.5 84.0 94.1 92.8 96.6 97.5 97.5 97.5 52.1 97.5 58.8 69.8 69.8 95.8 95.8 97.5 93.3 94.1 94.1 64. VISIBILITY (STATUTE MILES) 95.8 50.4 8.06 95.8 17.3 83.2 93.3 95.8 8.56 95.8 95.8 84.9 86.6 86.6 86.6 8.56 95.8 95.8 81.5 95.8 95.8 24.6 56.3 56.3 56.3 58.8 58.8 93.3 95.8 95.8 64.7 83.2 ¥ 2 8.06 \$000 77.3 95.8 63.3 93.3 95.8 95.8 95.8 81.5 83.2 84.9 95.8 8.69 95.8 52.1 81.5 93.3 83.2 64.7 64.7 7. 81.5 95.0 95.0 54.0 9.06 95.0 0.56 95.0 95.0 58.8 63.3 6.66 0.56 0.56 95.0 95.0 0.56 77.3 81.5 93.3 \$000 82.4 83.2 0.56 69.8 83.2 84.9 50.4 54.6 56.3 84.0 95.4 16.5 82.4 94.1 52.1 58.8 68.8 6.68 1.76 94.1 94.1 80.7 92.4 1.76 94.1 1.46 80. 72.4 94.1 94.1 1.76 1.56 94.1 040 76.5 95.4 56.3 82.4 45.4 83.7 4.26 1.56 6.68 95.4 34.1 \$0.4 52.1 58.8 68.8 1.46 1.56 94.1 1.96 1.56 54.0 80.7 30.7 1.46 1.46 1.46 1.46 64. 1.95 1.46 4.26 4.26 N Al 95.4 8.61 95.4 95.4 45.4 92.4 81.5 81.5 \$0.4 58.0 63.9 63.9 84.0 84.9 84.9 91.6 91.6 91.6 4.26 95.4 95.4 35.4 92.4 75.6 75.6 81.5 81.5 91.6 91.6 92.4 92.4 91.6 91.6 92.4 92.4 52.1 54.6 56.3 56.3 56.3 19.8 79.8 83.2 89.1 89.1 68.1 68.1 52.1 24.6 58.0 92.4 8.61 95.4 82.4 83.2 90.8 91.06 90.8 91.6 91.6 91.6 92.4 45.4 92.4 50.4 91.6 92.4 95.4 91.6 92.4 45.4 11 91.6 58.0 88.2 8.06 91.6 91.6 50.4 9116 9116 63.9 63.9 14.8 0.61 91.6 24.6 68.1 79.01 79.0 80.7 91.6 80.7 ٨١ 91.6 52.1 54.6 56.3 58.0 0.6/ 8.06 91.6 91.6 91.6 30.4 95.4 0.40 8.06 91.6 91.6 91.6 9116 91.6 8.7 8.06 9. 68.1 1009 88.2 80.7 6 NO CEILING VI VI 0008 1 4 V 1 V 14000 80 (FEET) > 20000 2000 1500 88 88 88 4500 1200 2000 9000 33000 88 AI AI ALAI ALA AI AI AI AI ALAI AI AI

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

87601 STATION

0

0

0

0

0

0

0

0

0

0

0

0

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

73-76

0.6 MOURS (1.5.7.) NON

34.5

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURGO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

60 NOV

500

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	(53						
(FEET)	2 1	o Al	\$ 4	AI	6 1	2 2%	N 2	W. Y	Y	Ā	% Al	* 1	Z AI	2 5/16	AI	O AI
NO CEILING	53.3	en e	53.3	53.3	53.3	53.3	54.2	54.2	54.2	54.2	54.2	24.5	54.2	54.2	54.2	24.2
2000	000	0	•		2000	•		3	:			1			3.1.	
18000	56.7	10		56.7	56.7	200	57.5	57.5		57.5	57.5	57.5	57.5	57.5	::	57.5
	59.2	-					:	0.09	0		0	60.0	0		0	60.0
12000	8.09		8009	60.8	8.09		61.7	61.7		61.7	61.7	61.7	61.7	-	:	61.7
, -	65.8	-		65.8		5	0		:	9	1.09		6			66.7
000	66.7	~		66.7	0	66.7	-	67.5	1.	67.5		67.5		-	67.5	67.5
1	70.8	00		10.8	70.						:	:	:		-	73.7
141	77.5	10	77.5	77.5	77.	-			8		79.5	2.64				79.2
1	80.0	O			0	0	0	0	0	-	:					81.7
9006	81.7	-		81.7	=	81.7	82.5					83.3		3.		83.3
1	81.7	-			-	-	3		2	3.		83.3	83,3			83.3
0004	83.3	0		83.3			84.2	84.2	;		2			5	85.0	85.0
1	84.2	2		84.2			5	85.0	3	5	3	85.8				85.8
3000	85.8	60	85.8	85.8	85.8			86.7	•				-		87.5	87.5
1	85.6	-		86.7	0	9			1		8	1			88.3	88.3
7000	90.0	Ö	90.8	90.8	8.06	8.06	95.5	95.5	3	93.3	93.3	93.3	93.3		93.3	93.3
1	0.06	0		0	.06	0	2	6.56	7	93.3	3	3		3		1-4
1200	90.6	80			.16	-	*	93.3	3		;	24.5				94.2
1	8.06	00		91.1	-	-	3.		3	3				4		
000	91.7	1		92.5	5	95.5		34.5	;		3	1.96	•	9	1.96	96.7
	41.7	-		92.5	2.		94.2	34.2	*		95.8	1.96	0			96.7
8	41.7	~	95.5	92.5	95.5	92.5	94.2	34.5	;		97.5	98.3	6	89.5		99.2
	91.7	-	0	92.5		2	2.46	2.46			97.5	2.66	6	0	0000	0.001
8	91.7	-		92.8	•	92.5	2.56	8.46	*	95.8	97.5	366		100.0	0.001	0000
	91.7	-		92.5	5.		3.56	2.46	34.5		61.3	2.66	0	0	100.0	0000
9	91.7	1		92.5	5	92.5	34.5	2.46	;	95.8	97.5	99.2	100.0	10000	0.001	0001
	41.1	-		92.5		92.5	34.5	34.2	34.5	95.8		2.66	0	0.001	0.001	0000
30	91.7	-		92.5	92.5	92.5	94.2	34.5	94.2	95.8	97.5	99.2		100.0	0.001	00.00
		-	6.26	92.5	•	6.26	34.5	35	2.46	8.56	97.5	2.66	0.001	0.001	0000	0000
١٨١	91.7	91.7		95.5	92.5	92.5	2.56	84.5	34.5	95.8	97.3	2.66	100.0	100.0	100.0	0001

SMOS

120

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

87601 STATION

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601 STATION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12 NOV

E

CEILING							VISI	VISIBILITY (STATUTE	ATUTE MILES)	(\$)						
(FEET)	2	٥ ٨١	S AI	7	6 1	> 2%	2 4	V 1%	71 71	-	% Al	*	Z AI	≥ 5/16	× Al	٨١
NO CEILING			55.0			55.8		5		5	92.8	5	2	00		2
≥ 20000		•	•	2	3	5	•	2	3	3	2	3	2	5.8		55.8
N 18000		•	•			63	00	ω.	•	8			8	8.3		8
≥ 16000		•		•	0	0	ò	0	0	0	0	ò	0	0.0	•	0
		•		0		0		0		ċ	0	0	0	0.8		60.8
2 12000				4	3	:0	5	3	3	5	3	3	3	5.0		65.0
				30	;	9	9	0	9	9	0			1.9		0
0006				69.5		0	0	0	0	0	0	0	0	8.0		
				~	3	3	3	3	3	0			4	4.2		
7000				0		0	0	0	0	ò	0	-	-	1.7		=
				0	=	-	-	-	-	-	-	2	2	2.5		~
2000				0	-	-	-	-	-	-	-	2	2	2.5		N
				0		-	-	-	-	-	-	2	2	2.5		N
141					;		;	;		4	;	8	2	5.0		85.0
				5	3	5		5	5	30	5	.0	0	6.7		0
3000				w.			:	7	-		-		8	8.3		8
1				120	9	9	-	-	-	-		8	8	8.3		8
1 2000				0	0		-	-	-	-	:	2	2	2.5		95.5
				0	0	0	-	-	-	-	-	2	7	2.5		2
1500				0	0	0	-	-	:	-	:	2	3	2.5		95.5
			0.06	0.06	8.06	8006	-	-	41.7		91.7		7	2.5	95.5	
V 1000				·	-	-	3	2	2	5	3	3	2	2.0		0.56
				ċ	91.1	.:	3	2	3	2		3	•	2.0		n .
00 AI			•	0	-	-	3	5.	2	5	3	•	0	6.7		-
				ċ	91.7	-	2	2.	2	0		9	0	6.7		-
8				0	:	1.	2	2.	2			•	9	6.7		97.5
				ċ	91.7	-	2	2		2	*	:	-	7.5	6.86	0
8				ċ	-	-	2	5.	2.			-	1.	7.5	96.3	2.66
				ċ	61.7	:	2	2		2	*	:		1.5	68.3	99.2
30				ċ	91.7	91.7	2	2		5	;	-	-	7.8	6.86	36.5
8	88.3	89.5	8.06	8.06	91.7	91.7	95.5	95.5	95.5	95.5	2.46	97.5	97.5		6.86	99.5
		•	•	0	91.1	71.		2	6.26		•		:	97.5	96.3	00.00

120

TOTAL NUMBER OF OBSERVATIONS

100

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15 HOURS (1.5.7.) NON

CEILING																
(FEET)	01 41	Ø Al	\$ 11	4	M Al	2 2%	N AI	¥1 ¥	7 1%	-	7 1	* AI	۲۱ ۲۷	≥ 5/16	× Al	AI
NO CEILING	100	30		10	5	5	3	5	5	5	5		3	3	5	
₹ 20000	1.	-	-	57.5	2		:		7	57.5				7	57.5	57.
	-	-	-	-	-	-	=	-	-	-	-		-	-	-	
2 16000		3			3	6	100	3	3							
	5	5		2	3	5	3	3	5	5	3		3	3	3	
2 12000	.9		•	.0	9	. 9		9	0	.0			0	9	•	
	3	6	6	0	6	3	6	6	6	6	6			6	6	
0006	*	5		100	i	5	3	5	5	5	3			3	3	
1	9			00	8	00	60		3	8	8			*	8	
7000	0	2	2		3	2.	2	2.	2	2	3.		2	~	3	83
1	0	2	2.	2	2	2.	2	2.	2	2	2.		2.	2	3	83
2000		60			i		3		3	*					*	84.
1	-	3			*				3	3.	3		3	-		84.
0004	*	85.0		85.0		85.0	5		10	5		85.0	85.0	5	85.8	85.
1		30	2	F.)	5	30	3	5	3	3	5		3	5	-	
3000	-	6		6	0		6	6	6				6	6	-	06
1	0	0	0	0	0	0	0	0	0	ò	0			0	-	
7 2000	0	2	2	2	2	·	2	2	N	2	3		2	2	-	93.
1	0	2	2	2	2.		3	2	2	2	3		2.	2.	-	93.
171	-	*	;		*	*	*	;	*	'n	2			5	-	95.8
1	2	*		4	3		4	+	3	5	2		2	3.		95.
100	2	*	;		*	*	*	*	4	5	9			0	-	
1	2	34.5	*	4.	3		3	5	5	5				8		66
8	2	2.56	*		*	*	*		5				0	0	-	
1	2	3	*	*	*		*	0	3	3	-	8.3		100	-	66
9	2	*	•		4	5	*	3	3		-	98.3	D	0	-	
	2	4	:	4.	*	4	4	2	3	100		98.3		8	-	
141		. 5	;		*		*		S		1.				-	66
1	2	4	:		*		*	5	3	-		98.3		20	-	
38	92.5	24.5	2.56		2.46	4	2.46	2	0.56	95.8	61.5	98.3	2.66	12.66	00	00
81	2	4.	;	34.2	*	2.46		0.66	3	5		6.86		3.5	00	00

120

TOTAL NUMBER OF OBSERVATIONS

~~

SMOS DIRNAVOCEANMET

87601 STATION

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATION, ANTARCTICA

87501

NON

1.8

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	0	0	2.1	.8	1.1	5 . 5	1.3	.3	0.0	. 8	1.1		.3	6.3	1.	1.2	1.3	.3	2.	2	0.0	0	100		.5	.5	. 5	.3	8.3	.2	.2	. 2	0.0
	٨١	1	-		7 61	-	-	-	-	-	-	-	-	-		-	66	-	5 9	-		-	96	0	6	6	6		98		66		100
	AI M	3		0	-						81.7			3.		6	93.3				95.0		96.7	97.5	97.5	97.5	97.5	98.3	98.3	99.2	366	99.2	
	2 5/16	5	9	0	61.7	2.	3		0	3	-	2.	3.	3.	. 9		93.3	3.	*	4	95.0	5	.0	61.3	97.5	81.8	97.5	8.3	98.3	36.5	33.5	36.5	•
	Z AI	3	0	0	61.7	2.			0	5		2	3	3		6	3.	2		4.	5			61.5		-	97.5	61.2	6.16	97.5	97.5	61.5	97.5
	*	55.0			61.7	65.5			0.07		81.7		83.3	83.3	86.7		93.3				95.0			1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
	× 1	0.	2.9	8.0	1.7		3.3	-	0	00	81.7				1.	2.			2.	.2	0	0.56	00	1.96	1.	1.					. 7	1.96	
	-	8.0	2.9	0.8	61.7	2.5	3.3	.5	0	5.8	1.7	. 5	3.3	3.3		3.5	3.3	3.3	2.46	4.2	2.0	0	5.0	6.7	6.7	6.7	4.1		1.9	6.7	6.7	1.96	6.7
UTE MILES	¥1 A1	2.0	6.7	8.0	1.7	5.5	3.3	7.5	0.0	5.8	1.7	2.5	3.3	3.3	80.0	8.3	2.5	2.5	3.3	.3	7.4	4.2	4.2	2.4	4.2	2.4	4.2	4.2	4.2	~	4.2	2.4	4.2
VISIBILITY (STATUTE MILES)	¥1 ¥1	0	6.7	9.0	1.7		3.3	1.5	0.0	5.8	-	5.5	3.3	3.3	5	8.3	5.5		3.3	3.3	4.2	6 2.96	.2	6 2.46	8 2.46	*	_	2.4	7.4	4.2	7.5	6 2 %	2.4
VISIBI	~ Al	9.0	2.9	0.0	1.7	2.	3.3	7.5	0.0	5.8	-	2.5	3.3	3.3	8.8	8.3	5.5	2.5	3.3	3.3	4.2	.2	2.5	7.5	2.4	*	2.4	6 2.56	. 5	*	7.5	6 2.4	4.5
	2 2%	5.0	6.7	0.8	1.7	2.	3.3	. 5	0	5.8	1.7 8	5.5	3.3	3	5.0	8.3	2.5	5.5	3.3	3.3	4.2	4.2	4.2	7.4	4.2	4.2	4.2	4.2	2.4		4.2	4.2 9	4.2
	6 4	5	1.9	8.0	1.7 6	5.5		-	0	5.8	1.7	2	3.3	3	5.8	00	5.5	2.5	3.3		4.2	4.2	*	4.2	2.5	*	*	2.4	7.4	7.4	4.2	. 4	4.2
				0.8 6	1.7 6	2.5 6	3.3 6	7.5 6	7 0.0		1.7 8	2.5 8	3.3 8	3 . 3 8	. co	•	2.5	5.5 9	3.3 9		4.2 9		4.2 9		4.2 9	4.29	. 2	4.2 9	. 2		.2	6 2 . 5	2.
	۸۱ م	0.0	.7 5		1.			.5			1.				. 80	.3 8	.5 9		.3 9	.3 9	.2 9	.2 9	.2 9	6 2.	6 2.	.2 9	0	O-	0	0	0	6 2	0
	AI	*	1	0	19 4	0	0	0		-	CC	00	007	00	හ	00		0	0	0	0,	en.	0	O.		0		1		1			
	٨١	55	56	09		62	69	0	70	75	81	02	83	80	85	8	92	92	63	93	63	63	63	63	93	93	63	93	66	63	66	63	93
	5	5.	9	0	61.7	2	=		0	5		2	1	-	0	00	2	2		3		10	3		0	171		3	3	3	3.	3	3
CEILING	(FEET)	CEILING	≥ 20000		2 16000		2 12000	1 "	0006		7000		0005 1		900	1	3000		7 2000	1	8 1 2 1	1	98		8		8		8		30	8	
		2						Ľ						L				L										L		L			

TOTAL NUMBER OF OBSERVATIONS

120

SMOS DIRNAVOCEANMET

-

CEILING VERSUS VISIBILITY

10948

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MURDO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21 NON

111

	0		49.2		51.7		57.5		69.2	15.8	81.7				87.5	88.3	91.7	65.5	94.2	2.46	95,8	95.8	96.7	97.5	97.5	98.3	98.3		98.3		3.66		00.00
	Z AI	1.5	7	00		80	.5	00	.2	00		0	.5		. 5				2.46	2				. 5	•	8.3	8.3	.3	8.3	8.3	8.3	68.3	
	≥ 5/16		6		21.7	5	-	.0	0	2.	:	5	-		-	8	:	5.	2.46	*	95.8	3	196.1	-	97.5	98.3	98.3	69.3	98.3	98.3	8	98.3	•
	N 2	-			51,7		-			2	:		-		-		-	7	2.46	;	3	0	•		7.			6.36	98.3	98.3		6.86	00
	* 1		6	0		2	-	0	6	3	-	2	-		-		-	5.	2.46				0	61.6	97.5	97.5	97.5	97.5	97.5	61.5	97.5	61.5	
	% Al	1			:	5	-	0	6	5	-	2	-		-	80	:	7		4	2	2	9		-			-	7		97.5		-
LES)	- -	47.	49.2	50.	51.	58.	57.	•09		75.	81.	85.	80	67.	87.	88.	91.	92.	. 76	46		0	0	96	96.7	2	_	6	_	0	-	1.96	0
VISIBILITY (STATUTE MILES)	VI VI	47.	.64	50.	51.	55.	57.	90	69	75.	80.	84.	86.	86.	86.	87.	.06		93.3	93.	94.	96	. 76	. 76	. 76	. 76	_		94.2	•	:	64.2	94.
SIBILITY (S	V1 7/2	41.	4	50.	51.	55.	2	.09	69	75.	80.	84.	00	86.	86.	87.	.06	0	93.	93.	94.2	. 96	. 76	96	6	. 76	94.2	5	34.5	5	94.5	94.2	94.
i,	N N	47.	.64	50.		55.	57.	•09	•69	75.	80.	84.	86.	96.	86.	87.	.06	-	63.3	93.	. 76	. 46	94.	. 56	. 56	. 46	. 56	. 76	. 76	•	94.2	. 76	94.
	2 2%	47	64	20.		55.	57.	.09	69	15.	80.	64.	86.	86.		87.	.06	-	93.	93.	94.	. 76	0	94.	. 76	. 76	94.	-	. 56	94.2	0	34.2	96
	e v	41.	49.	50.	51.7	55.	57.	0	.69	75.	80.	*		9	.9	-	90.	.10			4					*	94.2			;		34.5	3
	AI	47.	49.2	50.		55.	57.5	9	69.5	75.	8	48	00	no			0.06	.06			93.3	93.3	93.3	93.3	93.3	93.3	93.3		63.3	63.3	63.3	63.3	93.3
	۶ ۲	4	49.	50.	51.	55.	57.	60.	69.	75.	80.	84.	86.		86.	87.	90.	.06	\$ 92.5	92.	63	93.	6	93	6	93.	93.	63.	63.	63.	0	93.	93.
	۸۱	4.1	65	50.		55.	57.	.09	69	75.	80.	. 40	86.7		86.	87.	90.	90.		92.									93.3			93.3	93.3
	VI 5	47.5	6	0		5	57.5	50.8	69.2	75.8	80.8	84.2	86.7	66.7	86.7	87.5	89.2	90.0	91.7	91.	91.7	91.	91.7	91.	91.1	91.	91.7	91.	91.7	91.1	91.7	91.	91.
CEILING	(FEET)	NO CEILING			141		7 12000		141	1	141		2000		1 11		3000		7000		141	1	000		8		8		8		8		١٨١

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

HC HURDE STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOUSE ILST. NON

CEILING																
(FEET)	5	9 11	\$ 41	41	e Al	2 21/2	7 1	V 1%	¥1 Y	-	N NI	*	Z AI	2 5/16	AI	٨١
NO CEILING	52.6	52.6	52.6	52.6	52.7	52.1	52.8		52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.
Z 20000		3	3	3	3	3	3	3	3.	3.	3	3		3.		53.
		•	0		. 9		;	•	0	9		.9		9	56.3	56.
2 16000		-	-	-	-	-	-		-	-	57.5	1		-	57.5	57.
		6	0		6		6	6	6	6		6		6	59.7	59.
2 12000		ò	0		-		-	-	-	-		-		-		61.
		5	5	5	5	1	3	3	5	5	5	3	5	5.		65.
0006		6	0			0	0		0	0		0	0	0	70.5	70
1		8	5	50	3	50	3	0	.9	9	9	9	0	9		76.
7000		0	0	80.6	81.0	81.0	-	:		-	81.8	81.9		-		82.
1		-	-	-	2	2.	2.	2.	2	3	3			3		83.
2000		2	3	CE3	3	43		84.1	*	*	84.4	;	*	*		84.
		2	3	-	3.	3	3	4.	4.	4			5	4.		
141		4	4	84.7	S		3	85.6		86.0	86.0	9		9	86.2	86.
		0	0	.0	0	. 9	-	-	-	-	-	:		-		88.
3000			0	89.0	6	6	0	0	0	0	9006	0				90
		6	0	0	0		-	:	:	-		-		-	616	92.
7000		-	-	-	2	2	3		9	10	ë	3		3		94.
1		-	-		2		3	3	3.	3		0	3	3		. 76
200		2.	N		3	4	4		*	*		5	0	2		95.
1		2	2		3.		*			*		5		2	2	95.
90		2.	N	92.8	3	3	;		,		;	•		6.96	97.1	97.
		2.	N	2.	3		3		3			:	-	:	97.5	97.
8		2	2	95.8	-	93.5	94.3	1.46	1.56	•	0	97.5	6.16		98.2	98.
1		2	2		3.		3			5		:	00		4.86	.86
8		2.	N	95.8			94.3	7.46	1.56	6.56	96.8	:	98.2	98.2	98.5	98
1		2	N					3		3.		4.79				66
8		2.	2	8.26	3.	3		4.7	1.56			÷		98.5	6.86	66
1		2	~	92.8	3.		6.46	94.7		6.56		97.7			0.66	
30		2	N	95.8	3.	93.5	•	4.7	24.7	62.6		97.7	98.5		1.66	66
81		2	95.8		93.5	93.5	6.46	4.7	1.46	6.86	6.96	4.16	98.5	8.86	366	66
			-	-												

TOTAL NUMBER OF OBSERVATIONS

626

87601 STATION

86.3

86.3 86.

86.3

85.5 86.3

85.5 87.1

85.5 85.5 87.1 87.9 91.1

85.5

85.5 85.5 87.1

88.7

88.7

88.7

87.9

87.9

87.9

87.1

91.9

616

91.9

616

91.9

91.9 6116 92.7

91.1 91.1 91.9

91.1

91.1

91.1

91.1

91.1

89.5

89.5

87.1

87.1

2500

ALAI

87.9

87.9

87.9

87.9 91.1

86.3 86.3

84.7

84.7

87.1

87.1

87.1 87.9

87.1

65.5

65.5

83.9

83.9

3000

AI AI

83.1

33.1

91.1

91.1

91.1

91.1

91.1

91.1

87.9

92.7

92.7

92.7

97.6 4.86

97.6

91.6

8.96

8.96

96.8 96.8

95.2

4.86

4.86

7.26

92.7

91.9 92.7

91.9 91.9

91.9

91.9

91.9 6.16 95.2

6116

616

6.16

8003

87.9

87.9

1500

ALAI

89.5

89.5 90.3

87.1

87.1

91.9

6116

6116 95.2

91.9

91.9

90.3

6.06

87.9 90.3 6.06 90.3

6.48 80.3

1200

ALAI

95.2

95.2 95.2

93.6

92.7

CEILING VERSUS VISIBILITY

MC MURDO STATION, ANTARCTICA

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

HOURS (L S T DEC 00

56.5 24.0 86.3 50.0 74.2 52.4 198 60.5 79.0 83.1 58.1 63.7 80.7 7 52.4 56.5 58.1 50.0 54.0 60.09 74.2 79.0 86.3 83.1 63.7 80.7 83.1 79.0 20.0 50.5 58.1 2.41 86.3 83.1 83.1 79.8 80.7 51.6 2.65 49.2 65.0 85.5 55.7 78.2 53.2 57.3 57.3 59.7 82.3 * 73.4 78.2 7.67 65.0 49.2 \$3.2 19.8 82.3 82.3 85.5 55.7 AI PERCENTAGE FREQUENCY OF OCCURRENCE 49.2 51.6 53.2 65.0 73.4 78.2 19.8 82.3 57.3 57.3 82.3 82.3 85.5 55. 59.1 A VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) 51.6 73.4 78.2 85.5 49.5 49.2 53.2 65.0 8.64 82.3 55.7 59.7 ×-57.3 51.6 53.2 78.2 8.64 65.0 73.4 82.3 85.5 82.3 59.7 65.0 73.4 85.5 78.2 49.5 19.8 82.3 51.6 53.2 57.3 82.3 55.7 59.7 Al 51.0 53.2 57.3 65.0 78.2 19.8 82.3 62.3 2.65 85.5 59.7 65.9 53.2 57.3 19.8 49.2 62.3 78.2 51.6 85.5 82.3 57.3 49.2 51.6 77.4 77.4 65.0 0.66 81.5 81.5 83.9 55.7 AI 53.2 51.6 19.0 81.5 49.2 65.6 49.2 73.4 81.5 83.9 57.3 57.3 55.7 59.7 V AI 78.2 16.6 65.0 5.6 51.6 2.64 69.2 83.1 53.2 80.7 55.7 59.7 ٨١ 16.6 51.6 57.3 83.1 53.2 65.0 9.7 78.2 49.2 55.7 80.7 59.7 80°7 2 NO CEILING VI VI 0006 0006 12000 000 000 000 (FEET) 7 20000 2000 4500 9009 AI AI AI AI AI AI ALAI

50.0 52.4 54.0 50.5

٨

58.1

TOTAL NUMBER OF OBSERVATIONS

91.6

0.96

0.96

0.96

0.96 0.96 0.96

0.96

96.0 96.0

4.46 4.46 4.46

91.1 91.1

88

AIAI

91.1

0.96

96.0

0.96

93.6

93.6

91.1

80

AI AI

0.96

96.0

0.96

0.96

124

-

98.4100.0100.0100.0100.0100 98.4100.0100.0100.0100.0100.0

98.4100.0100.0100.0100.0 98.4100.0100.0100.0100.0 0.0010.0010.0010.0100.0100.0

99.2

99.2

97.6 97.6 99.2

99.2

99.2

99.5

97.6

96.8

95.5

95.2

95.2

95.2

95.2

92.7

90.3 6006 80.3

88

AI AI

90.3

91.6

95.2

95.2

2.56

95.2

93.6 93.6

92.7

99.2

2.66

99.5

97.6

8.96 97.6

95.2

95.2

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03 103 HOURS (1 8 F.) DEC

1000

CEITING							VISI	VISIBILITY (STATUTE	ATUTE MILES)	S						
(FEET)	2	9 Al	S AI	4	8	2 2%	2 2	¥1 ¥	V 12	-	% Al	*	Z AI	2 5/16	Al Al	0 1
NO CEILING		48.		8	8			8								48.0
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		57.			8		8			8		8		80		8
000		61.			-			-	-	-		=		-	-	61.8
1		.99			8		*		8	8		8		8		68.3
141		20.			2.		2	2.		2		2		2.	-	72.4
		75.			:		2	-		-		-		-		
2000		75.			8			8				8				78.1
		75.						8	8			8		8	-	8
141		78.		80.8	80.5	80.5	0		0	-		-				
		29.			3			2.		2		2		2	-	2:
3000		80.			82.9		2	2	2	3		-				
		82						5		.0		9		9		
2000		84.			-		-	-	-			8		8		
		84.			7.		-	-						8		
1500		85.	88.6	88.6	88.6	88.6	88.0	88.6	88.6	3006	90.2			90.2	90.2	90.2
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000		87.			42.7			2	2	;	•			3		2
		87.					2	2.		*		3.		2		95.1
8		87.			3.				•	3	•	•		-		97.6
		87.			63.5			3		5	96.0					
9		87.					*	3		3	•					97.6
		88									91.6			98.4		
141		80			;	94.3						•-				
		80		6.46	6.46			8.46	;		91.0	:			•	
300	88.6	88.6	93.5		;		;		8.96	•	•		2.66	6	3.66	99.2
		88		6.46	6.76	94.3	6.36		•		98.4			89.2	0.00	0000
٥		88		. 4	*	4		;	*		8			6	00	
	1	,	1					1	1							

TOTAL NUMBER OF OBSERVATIONS

123

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

0:00

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0.0 DEC

100

	N N	0.04 0.0	0.	0	0	0	7.	~	1.2 70.2	61 4	200	.2 78	.7	.5	6.			1.3 90.3		. 1	0	0	8	00	*	6 4.	.40	4	.21		. 2
	2 5/16 2	46.0 46	1.6 4	0.0	0.0	1.6 5	58.1 58	0 1.7	70.2 70	30.6	78.2 78	8.2 7	0.7	1.5 8	3.9	5.5 8	0.3 9	90.3 90	2.7 9	2.7 9	6 0 9	6 0 9	6.8 9	8.9	8.4 9	8 4 9	8.4	8.4	.2		89.2 99
	Z AI	0.0	41.	20.	50.	51.		96.	2.07 2	2	2 78.2	78.2	80.7	81.5	83.9		90.3	90.3	92.7	92.7	96.0	0.96	96.8	8.96	4	4.86	4	5.	. 2	2.66	7.46
	*	46.	41.		•	•	58.		70.2									90.3										98.4	98.4	98.	78.4
	AI	46.0				-	58.1	,	70.2	•	78.2		80.7		83.9			90.3	92.7		96.0	•	•		•	:	97.6	97.6	97.6	97.6	91.6
SS	~	46.0		0	0	-	58.1	4.		9	3 40	8	0	-	3	5.	ò	0	5.	2.	•	÷	•		÷			:		91.6	-
TUTE MILI	×1 ×1	46.0		0		-	•	:	70.2		78.2	8	0	-		;	6	89.5	-	-	3	'n	Š	3	. 9	6.	8.96			96.8	
VISIBILITY (STATUTE MILES)	N 1%	0.04	41.6				58.1		70.2	2	78.	8	0		83.1		6	89.5	-		3		3	5	•		96.8	999	•	96.8	96.8
VISIA	12 2	46.0	-		0	-	8	2	70.5	3		8	0	-		*		89.5	-	-	31	*	5	3	•		3.96		•	8.96	94.8
	2 2%	0.94	47.6	0	20.0	-	8		10.2		78.2		0			*	0,		-				5		9		. 9	8.96	8.96	0	36.0
	e Al		47.6	0	0	-	58.1	2.	70.5	3	78.2	8		-	83.1		6	89.5	-	-	•	2	3	2	8.96	.9				8.96	
	1	0.04		20.0		21.6	58.1		70.2	•	700		80.7	81.5	83.1	1.48	88.7	88.7	91.1	91.1	4.46	*	4.46		9	0.96	0.96				0.96
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	9 11	0.94																87.1													
	5	0.94	47.6	20.0	20.0	27.6	57.3	010	9.60	0.2	16.6	16.6	79.0	19.8	81.5	63.1	87.1	87.1	87.9	87.9	91.1	1.16	91.1	91.1	1.26	92.7	92.7	92.7	92.7	92.7	1.06
CEILING	(FEET)	NO CEILING	18000	2 16000	-	12000	7 10000	000	0008	000	8 8 8 8 8 8	7,600	900	3500	3000	2500	2000	1800	2 1500	1300	1000	900	00 AI	200	8	905	8	300	141	8	0

TOTAL NUMBER OF OBSERVATIONS

124

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CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1

DEC MONTH

MOUNTS (L S T)

48.0 58.5 48.8 50.4 58.5 48.8 50.4 48.0 57.7 2 5/16 58.5 48.0 48.8 50.4 51.7 ١٨ 47.2 0.84 57.7 49.6 57.7

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		-	
	*	47.2	80 0
(6)	71	47.2	8
TIOLE WILL	71 71	47.2	0.84
IDILITY (STATUTE MILES)	7 7	47.2 47.2	0.8

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AI

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(FEET)

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4000	3000	2900	980	980

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0	00	6	6	8	92	0	2

8	8	8	8	8	8	8	8	8
						91.1		
71.	91.	92.	92.	93.	93.	93.5	93.	93
92.	92.	63.	93.	94.3	34.	94.3	94.3	94.3

	1	1	1	1
6.96	95.1	95.1	95.1	1.86
93.5	93.5	94.3	94.3	64.3
92.7	92.7	93.5	93.5	93.5
			91.1	
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MIMI

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TOTAL NUMBER OF OBSERVATIONS

MC MURDO STATIONS ANTARCTICA

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

73-76

(FROM HOURLY OBSERVATIONS)

YEARS PERCENTAGE FREQUENCY OF OCCURRENCE

HOURS (L S T.) DEC 12

5

83.1 89.5 95.2 50.0 78.2 19.0 89.5 0.96 8.96 0000 52.4 60.5 60.99 83.9 99.2100.0100.0100.0100.0100.0100.0100.0 99.2100.0100.0100.0100.0100.0100.0100.0 53.2 99.2100.0100.0100.0100.0100.0100.0 99.2100.0100.0100.0100.0100.0100.0 83.1 83.9 83.9 84.7 ٨ 83.1 53.2 89.5 99.2100.0100.0100.0100.0100.0100 95.2 99.2 50.0 52.4 75.0 0.64 89.5 58.1 60.5 78.2 83.9 0.96 8.96 84.7 84.7 6000 83.1 1.20 2.66 52.4 83.9 89.5 89.5 0.96 50.0 53.5 75.0 89.5 58.1 83.1 95.2 78.2 8.96 50.0 0.61 83.9 84.7 60.5 62.1 6699 83.1 84.7 2 5/16 2.66 53.5 75.0 78.2 95.2 50.0 52.4 83.1 89.5 8.96 58.1 6.99 0.64 83.9 83.9 84.7 84.7 0.06 83.1 1.29 ٨١ 89.5 89.5 89.5 95.2 8.96 53.2 1.29 0.61 52.4 50.0 6000 15.0 78.2 83.1 83.9 83.9 83.9 83.9 84.7 96.0 99.2 99.2 58.1 58.1 6099 83.1 . 78 Al 89.5 2.56 78.2 0.96 75.0 52.4 50.0 53.5 83.1 0.6 84.7 8.96 6.99 60.5 62.1 83.1 83.9 84.1 % Al 0.96 78.2 53.2 75.0 19.0 83.1 89.5 4.86 50.0 58.1 60.5 95.2 6699 89.5 96.8 62.1 84.7 83.1 83.9 84.7 ٨١ VISIBILITY (STATUTE MILES) 52.4 53.2 58.1 83.1 50.0 78.2 8.96 6.99 0.61 89.5 98.2 8.96 8.96 8.96 8.96 8.96 50.09 75.0 84.7 4.46 8.96 62.1 83.9 83.9 89.5 95.2 83.1 84.7 17 50.0 53.2 78.2 6.68 52.4 75.0 0.64 8.96 58.1 83.9 4.46 60.9 83.1 89.5 96.8 62.1 60.09 83.9 84.7 84.7 95.2 96.8 8.95 8.96 96.8 95.2 8.96 83.1 71 77 83.9 83.9 83.9 83.9 84.7 19.0 4.46 83.1 84.7 8.96 50.0 6000 8.96 96.8 96.8 50.0 52.4 53.2 58.1 62.1 75.0 78.2 83.1 83.9 95.5 95.2 8.96 96.8 89.5 89.5 8.96 600 89.5 52.4 78.2 83.1 96.0 96.8 50.0 53.2 58.1 62.1 6.99 15.0 0.61 83.9 84.7 89.5 95.2 95.2 96.8 96.8 4.46 96.8 60.5 96.8 96.8 84. 96.8 96.8 83 7 2% 50.0 78.2 96.8 53.2 75.0 0.64 83.1 96.8 6.99 95.2 95.2 8.96 8.96 52.4 83.9 84.7 89.5 4.46 8.96 58.1 60.5 62.1 89.5 84. 83.1 M Al 58.1 60.5 93.6 93.6 95.2 50.0 78.2 95.2 53.2 75.0 83.1 95.2 6.99 79.0 95.2 52.4 83.9 88.7 93.6 94.4 95.2 62.1 84.7 94.4 95.2 84.7 88.7 83.1 ٨I 83.1 78.2 52.4 53.5 4.46 58.1 0.64 60.5 83.9 88.7 92.7 50.0 1.29 699 83.9 84.7 84.7 92.7 92.7 58.7 83.1 VI VI 53.2 78.2 20.0 52.4 75.0 19.0 4.46 4.46 4.46 83.9 83.9 84.7 84.7 34.4 4.46 4.46 94.46 58.1 83.1 92.7 60.09 88.7 88.7 92.7 6.99 83.1 62.1 92.1 ٨١ 616 93.6 93.6 93.6 83.9 93.6 93.6 87.9 61.9 61.6 93.6 83.9 93.6 49.2 52.4 57.3 77.4 65.3 83.1 6.16 6119 78.2 82.3 83.1 21.0 59.7 66.1 4.2 2 NO CEILING CEILING (FEET) × 20000 VI VI 0003 0003 12000 900 7000 3000 1500 1200 8 6 9000 4000 2500 88 88 AI AI ALAI AI
TOTAL NUMBER OF OBSERVATIONS

99.2100.0100.0100.0100.0100.0100.0100.0 99.2100.0100.0100.0100.0100.0100.0

8.06

8.06

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124

525

SMOS DIRNAVOCEANMET

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

MC MUNDO STATION, ANTARCTICA

15 HOURS (1 S T)

		_	_		_	-	_	-			-	-	_	_	_	-		-	_	-				_	_		_	_	_	-		-	
	O AI	53.7	54.5	55.3	57.7	62.6	63.4	68.3	72.4	77.2		84.6	87.0			8	•		95.9			96.8		98.4		000			000		00		000
	AI				57.7	2.				:	82.1		87.0						6.56			8.96		7.86		0.00	•	•	00.00	•	0000	•	0000
	\$/16	3.7	4.5	5.3	7.7	5.6	3.4	8.3	5.4	7.2	2.1	4.0	7.0	0.7	7.0	8.6	0.2	1.9	2.9	5.9	6.8	6.8	8.4	4.8	9.5	0.0	0.0	10.0	10.0	10.0	0.010	0.0	0.0
	AI S		5	.3	7.7 5	9.	4		4	.2	2.1	9.4	1	0.7	1.0	9.8	2.0	1.9	5.9 9	6.5	8.9	.0	8.4	6 4.8	.2	6		10.	0	0	0.010	0.00	0.010
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ES)	-	3.			57.7	2.		•	5	7.	5	•	-	•	-	83.6	ċ	-	6.86		ė	•		4.86	00	48.4		4.86	98.4	98.4	98.4	* *	1006
TUTE MIL	71	3	;	S.	57.7	2	3	8	72.4	-	2								95.9			90.96		9.16		91.0		9.16	-	91.6	:	0.10	0.16
VISIBILITY (STATUTE MILES)	VI 7/2		54.5		57.7		4.69		72.4		•		87.0	•	-		0		6.56	2.	•		91.6	91.6	:	9.16	91.6	91.6	91.0	9.76	97.6	0.0	0.1
VISI	7	3		3	57.7	2.		8	72.4	:		*	:	-	-	8	ò	-	•			.0	÷	9.46	:		:	-		9.46	-	31.6	27.0
	2 2%	50		5	57.7		6			1.	?	•			9		6	•	95.1		5	•	9	96.8	•	10.0	•	96.8	•	.9	30.96	000	0
	E AI		*	5	57.7	2.	3	8	2.		5		.0			:	6	-	1.56	3	6.56	5.	;	8.96	0		•	•	;	8.96		000	•
	AI			3	57.7	2.	3	8	72.4		82.1	. 4	9	9	9		6	-	95.1	5	5	5	•	96.8	9	96.8	9		. 9	8.96	•	ċ.	90.0
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	o Al	3.	;	3	-	2	3	8	2	-	2	*			•	-	6	-	3	5	S		9	9		0	•	. 9	•	. 9	96.8	0	•
	2 11	N	100		•	-				9	-		5	3	5	1.		0	3	3		*	5		2	•	2	5	2	1.56	95.1	1.00	1301
CEILING	(FEET)	CEILING	≥ 20000		16000		12000		0006		2000		2000		4000		3000	1	2000		1500		0001		8	200			8		700	8	
		9	^'	_	1 1 1	_	1 11		AI	_	1 11		1 11		1 11		1 11		1 11		1 11		1 11	٨١		^1	٨١		M			٨١	

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATION, ANTARCTICA

87601

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73-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1 8 1 sanon DEC

E

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MILI	(53						
(FEET)	0 1	9	\$	7	6 1	2 2%	7	×1 ×	¥1 Y	ĀI	× AI	*	N %	2 5/16	AI N	٨١
NO CEILING		54.8	54.8	4	54.8		*		54.8	*	3		4	4		54.8
> 20000		55.7	55.7	55.7	55.7	55.7	55.7			5	55.7	55.7	5	55.7	55.7	
		58.1			8				80	8	8	58.1	8	8		58.1
14000	-	58.1		58.1		58.1	58.1	58.1	8			58.1	58.1			58.1
		60.9		60.5	0	0	0		0				6			60.5
> 12000	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	6119	61.3
		67.7					-	-		-						67.7
0006	-	71.0		-	71.0			71.0	:	-		-	-	-		71.0
1	*	74.2		*		5	5	5	5	5		5	5	5		75.0
7000		79.0		79.0		0	•	0	80.7	80.7	80.7	80.7	80.7			0
1		81.5		-	83.1	5	3	83.1	3	33		3	3.	3	83.1	83.1
2000		63.1			*	84.7		84.7	;	;			;	;	84.7	84.7
1		63.1		3	84.7	64.7	4	4	*	4				4	84.7	84.7
141	85.5	85.3		88.5	87.9	7.	88.7	88.7		88.7		88.7		88.7	88.7	88.7
		86.3		•			6	6	0	6			6	6		89.5
3000		88.7	88.7	88.7	91.1	91.1	6.16	•	-	-			-	-	616	616
1		88.7		1				-	-	-			:			91.9
7 2000		91.1				3	•	•	0	•			•	•		96.0
		91.1		-	93.6			0	9	9			9			0.96
1500		91.9	•	91.9			.0		•	9			•	9		8.96
		91.9		-		4		0	0				9			96.8
1000		92.7	93.0	3					8	8		98.4	8		4.86	98.4
		92.7		10		9		8				98.4	8			98.4
8		92.7	93.6	93.6		0.96			8		4.86	4.86	8	8		98.4
		92.7				9	98.4		8			98.4		6		99.2
9		92.7	93.0			0.96	49.4		•		4.86	98.4	6	3.66		366
		92.7	93.0	93.6	0.96	0.96	4.86	8	8			98.4	6	6		2.66
VI 400		92.7	93.6		;	6.		•				4.86		6		2.66
		92.7		93.6	9	0.96	98.4		8			4.86		6		6
7 200		92.7	93.6	3	•	•		4.86	8	98.4	4.86	98.4	99.5	86.5	99.2	99.5
-		92.7	93.6	93.6	0.96	0.96	5.86		98.4			48.4		36.5		ċ
١٨١		92.7	93.6	93.6	9	9			8			98.4	6	89.2		

TOTAL NUMBER OF OBSERVATIONS

124

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDD STATIONS ANTARCTICA

87601 station

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21 DEC

	0 1	000				10		2.1		*:4					8.5			3.4	3.4	4.3											000
	3	000	2 4		1	**	-		2 8		.3 8	8 6.	6.0	.5 8	.5 8	3 8	w.	4.	6 4	.3 9	.3 9	.7	6 4 .	4 .	.2 9	_	000	-	010	010.	000
	Al	20	2 0	2 4		5	2	120	8	84	85	86	86		80		89	68	93		76		86	98	66	6	001	100	100	001	000
	≥ 5/16	50.0		. 4		4	5		81.2		5	86.9	86.9	88.5	88.5	89.3	89.3			64.3		96.7	98.4	98.4	99.2	6	000	0.00		000	0.00
	2	00			•	* *		7-	. 7	4		6.	6.9	5	.5			4	4.				*	*	.2	2	0.	0	0	0	66
	٨١	0 20				1 2	3 4	72	80		-	00		00	00	80	100	0	6 93	0	16 6			86 4		4	-	2100	2100	-	2100
	* Al	50.0		1			5			84.	85.	9				6		3	•	;	. 76		.86	98.			6	6	•	:	99.
	% Al	50.0	5		-	•	5	72.1			5		6.98		8	89.3	6	•	3.4		6.4		4.86			4.86	7.6	2.66		39.6	99.2
		00	1	7 -			1		. 2			0	9	5		3	5	4	3	6	6		•	4	4	*	2	2			22
ES)	Al	200		0 4	1 2		0	100		84		86	86		88	89	68		63		76	96	96	98	86		66	66	66		66
VISIBILITY (STATUTE MILES)	71 7	50.0		•	-	40.00	5	72.1		•	5	86.9	86.9			6			4.66		94.3	95.1	95.9	95.9		62.6		96.7	96.7	1.96	96.7
17 (ST	7.1	00	•	0 -	•	* *			12	4.4	5.3		6.0	8.3	8.5		6.	3.4	3.4		. 3	5.1	6.6	2.0	6.6	2.0	1.9	6.7		1.0	2.4
1118151	ΛI	000	, 4			4.5	1	10		20	20		00	5 8	æ	3 8	3		3	0	6		0	6	0						6 2
>	N Al	20.0	3			_	0 1	10			2	9				6	89.			;		5	98.		95.		96		.96		96.
	≥ 2%	50.0	-	200	•	100	0	72.1		84.4	3	86.9	86.9	88.5		89.3	89.3	60			84.3		6.56	68.6	6.56	6.56	1.96	96.7		1006	7.96
	۳.	000	•	2 - 2	7	* 1		7.0	1.2			6.9	6.9	8.5		6.6	6.6	3.4			6.3	5.1	2.9	2.0		5.9	1.9	6.7	1.9	1.9	7.9
	٨١	000	1 10) 4		0		2 2		00	8	8		200			6	6 5	0	3 8	1 9	6	6	6		6				6 1
	AI	1 .		200	•		5	200		84	5	86.		88	80	6	68		3	. 76	. 76	95.	. 56	95.	95.		96	96	96	96	96.
	8		•	•	•		•		81.2				86.9			89.3				6.46					6.56		1.96	7.96	1.96	1.96	96.7
	o Al	00		•	-	•		: .		*	5		9		8	6	6		3.		\$	10	5	3			5	5	20	5	95.9
	2	00	> 0	0 -		*		7 -		4	3	0	6.	5	.5	m		4	4	.3	~		7.	-	-	7.	0	6	0	6	00
	Al	-	1 00	1 4	1	2	0 4	0 1	00	3	80	80	100	00	0	89	œ	6	6	٥	6	6	6	0	0	0	6	6	0 0	0	9 9
CEILING	(FEET)	NO CEILING		VI V		14000		VI V	-	1 1 1	1	2000	1	141	1	300	1	200 1 A I		141		1 11		8	1	8		1 11	38		80

TOTAL NUMBER OF OBSERVATIONS

122

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MURDO STATION, ANTARCTICA E

(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF OCCURRENCE

1 \$ 1) SUCON DEC ALL MONTH

1000

97.6 58.4 53.4 999 83.0 92.0 92.0 50.3 52.2 67.1 74.5 78.4 80.8 86.1 88.5 6.96 3.66 ٨١ 80.8 80.8 80.8 83.0 92.0 0.26 0.46 87.4 99.2 78.4 85.4 50.3 52.2 58.4 67.1 88.5 88.5 97.6 83.1 86.1 6.96 ٨I 87.4 95.0 92.0 0.46 3.66 999 78.4 83.0 85.4 58.4 67.1 6.96 74.5 86.1 52.2 83.1 2 5/16 83.0 59.4 78.4 0.26 0.46 85.4 87.4 95.0 91.6 58.4 74.5 86.1 98.5 68.6 2.66 99.5 63.3 67.1 6.96 88.5 94.2 30.66 50.3 83.1 2 Al 78.2 87.2 58.2 14.3 0.66 50.1 53.2 56.4 30.6 82.9 85.2 85.9 91.8 93.8 4.16 6.86 88.3 91.8 98.6 66.99 82.8 0.46 98.1 63.1 98.3 96.7 * 9.86 85.2 20.4 6.4/ 0.46 98.3 98.6 98.0 58.5 90.08 87.2 91.8 4.16 61.6 0.86 78.2 91.8 53.5 88.3 93.8 98.7 50.1 6.99 82.8 82.9 1.96 98.7 % Al 9096 4.76 52.0 85.2 88.3 91.8 98.2 53.2 58.2 85.9 0.46 74.3 91.8 93.3 93.8 97.1 56.4 78.2 80.6 85.8 87.0 87.0 87.0 87.2 97.8 98.2 50.1 63.1 66.9 Ā VISIBILITY (STATUTE MILES) 91.6 58.2 50.1 85.8 91.6 52.0 56.4 78.2 96.4 90.08 85.1 14.3 88.0 7.96 53.5 82.9 93.5 95.9 63.1 6.99 85.8 85.8 85.8 95.4 96.1 1.96 7.96 96.7 96.7 77 85.1 91.6 53.2 58.5 63.3 82.9 0.88 93.5 93.5 6.56 40.1 50.1 63.1 74.3 80.6 80.6 82.6 82.8 82.8 91.6 91.6 95.4 95.4 78.2 40.4 60.99 96.1 1.96 96.7 96.7 96.7 ۲ ک 91.6 93.3 6.56 78.2 4.96 53.5 36.4 74.3 82.9 1.96 1.95 50.1 52.0 88.0 1000 1006 58.5 6.99 84.8 85.1 95.5 96.1 ~ 56.4 58.2 50.1 78.2 95.3 65.5 6.46 2.96 96.2 96.2 96.2 3.96 53.2 66.99 14.3 80.5 91.1 91.1 92.8 93.0 98.5 62.6 63.1 85.7 87.7 82.7 1 2% 50.4 82.6 58.2 74.3 78.2 84.8 8.76 93.0 6.46 95.3 96.2 91.1 91.1 95.5 95.9 85.5 96.2 50.1 63.1 80.5 82.7 87.7 96.2 6000 86.7 N Ni \$0.4 85.0 52.0 4.46 94.0 58.2 74.2 4.06 95.2 50.1 53.2 6.99 77.9 82.3 84.3 86.2 87.2 4.06 92.1 92.2 94.1 94.6 6.46 95.2 95.2 95.2 98.2 93.2 81.6 82.3 82.4 80.0 80.1 63.1 1 50.4 6.48 58.5 6116 63.6 50.1 52.0 53.2 63.1 82.2 84.2 86.1 6.06 91.6 93.6 1.46 1.46 4.46 1.46 74.2 90.3 6.99 77.8 87.1 ۱۸ ۱۸ 85.3 77.3 93.0 52.0 53.2 69.3 6.06 92.3 50.1 58.1 9.99 4.61 81.5 93.3 62.5 62.8 83.5 56.0 56.3 86.2 8.06 92.5 92.7 93.3 63.3 73.7 83.8 84.2 88.8 89.3 93.3 92.7 ٨١ 85.8 95.6 31.8 57.8 81.2 6.16 95.6 77.0 84.9 95.0 95.6 95.6 95.6 52.9 66.3 3.4 81.3 8.89 90.5 90.3 1.26 92.1 83.1 92.3 91.7 2 NO CEILING

4500

MINI

3000

AI AI

2000

AI AI

1800

AI AI

1200

ALAI

88

AI AI

88

AI AI

8 8

AI AI

2000

AI AI

TOTAL NUMBER OF OBSERVATIONS

186

80

AI AI

300

AI AI

87601

2 20000 VI VI 8000 0003 0003 Y 1 400

900

MIM

2000

AI AI

(FEET)

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

MC MURDO STATIONS ANTARCTICA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS (L S T) ALL

V V V V V V V V V V	V 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 1	^ A	2 2%										
CELLING 46.3 47. 20000 49.2 49.2 49.2 49.2 49.2 49.2 49.2 49.2	75 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-			7 1	×1 ×	¥1 ¥	- A1	% Al	*	2	≥ 5/16	N N	٥
20000 44°.2 48°.1 18000 49°.2 48°.2 48°.2 110000 55°.8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		7.5	-	7.7		-	4	20		0		8	
18000 48.2 48. 12000 55.	1.05.05.05.05.05.05.05.05.05.05.05.05.05.	47.9	48.2 4		48.4	48.5	48.5	48.6	48.7	48.7	8.84	48.8	48.8	48.8
16000 49.2 49.2 49.2 49.2 49.2 49.2 49.2 49.2	2 4 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6	4.	6	9.	9.		6	49.9			0	•	50.0
12000 52.8 53.000 55.00	40.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0.5	0	1.0	æ		0	•		-	-	-	
12000 52.8 53.000 59.00	53.9	2		2	0	0		•				3		
10000 55 9 56 9 56 9 56 9 56 9 56 9 56 9 56	725.5	3	4.2	4	4.5			4	*		*	4	;	
8000 59.6 60. 5000 70.2 71. 5000 72.0 73.6 77. 5000 73.6 77. 5000 73.6 81. 2500 76.5 77. 75.0 73.6 81. 75.0 81.7 84. 1500 881.7 84. 1500 881.7 84. 1500 883.7 86. 800 883.7 86. 800 883.7 86. 800 883.7 86.	72.5		1.0		7.8	0		8				00		58.4
2500 66.5 67. 2500 73.0 73.0 73.0 73.0 73.0 73.0 73.0 73	72.5	-	4	-				2	2		7	2.	3	
2500 73.00 7	72.5	8	6.8	*	9.3	3		6				0	0	70.1
25000 72.0 73.000 72.0 73.000 72.0 73.000 72.0 73.000 72.0 73.000 72.0 73.0 73.0 73.0 73.0 73.0 73.0 73.0 73	76.5	2	0	5	5	9.		4				4		74.5
2500 73.60 75.9 77.5 75.9 77.5 93.00 75.9 77.5 97.7 75.9 77.5 97.5 97.5 97.5	76.5		5.1	5	5.7	X.		9	0			9	9	76.8
2500 7 3 3 7 7 5 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			an.	7	5	0						6	6	79.3
2500 75 - 3 77 - 2500 75 - 3 77 - 2500 75 - 3 77 - 2500 75 - 3 77 - 2500 75 - 3	76.7	9	7.4	7.4	8.0	~		00			6	6	6	79.4
3500 7 7 6 5 3 7 8 1 1 200 0 0 0 1 1 200 0 0 0 1 1 1 200 0 0 0	78.5	8	79.4 7	4.0		~		-	-		81.4	-		81.6
2500 2500	19.0	6	6.0	0.5	1.2	6		2.	2		2.	2.	2.	82.8
2500 2000 2000 1500 1500 1500 1500 1500	82.3	2		3.3	2.5	(1)					5	3	5	85.9
2000 1500 1500 1500 1500 1000	83.3	*	.3	* * *	~	3.		9				0	9	86.9
2000 000 000 000 000 000 000 000 000 00	85.8	5	7.1	7.1	8.3	4		6	6		0	ċ	0	90.3
2500 000 000 000 000 000 000 000 000 000	85.8		7.	7.1	8.3	3		6			0	0	0	90.3
2000 2000 2000 2000 2000 2000 2000 200	87.1		8.6	00	0.	~		=	:		5.	2.	2	92.5
200 000 000 000 000 000 000 000 000 000	87.2		1.	8.8	0.1			-				2		92.7
200 000 000 000 000 000 000 000 000 000	88.1	00	0.0	0.0	1.6	0		•	•		5	3	5	95.6
200 000 000 000 000 000 000 000 000 000	88.2	00	7.	1.0	3.5	7.		100				•		1.96
200 000 000 000 000 000 000 000 000 000	38.4	8	0.2	6.0	2.0	.3		3				9	•	97.0
2000 2000 2000 2000 2000 2000 2000 200	88.4	*	.3	0	0.	3.		3				-		97.6
200 4 000 000 000 000 000 000 000 000 00	88.5	88.8	4.0	0	-	30							-	98.1
300 83.8	88.6		· s	0	2.	9		3				8		98.7
300 83.8	88.6	89.0	6 6.06	0	92.2	9.	95.6	*	3				9.86	0.66
200	38.6	6	.5	0		9.		+			6.16	8		99.2
00000	88.6	0.68		0		9.	95.6	•	3		98.0	8		99.3
100 63.8 86.	88.	6		ċ		9.	95.6	*			0.86			1.66
3.8 86.	00	0.68	5	0		9	95.6	1.56	•		0.96		11.66	0000

TOTAL NUMBER OF OBSERVATIONS

8658

DIRNAVOCEANMET SMOS

SHIP!

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MC MURDE STATIONS ANTARCTICA

STATION

- 2				-	-	_	_	-	_		4	
MEAN	SKY COVER	6.3	6.1	6.3	4.0	6.1	6.2	6.2	5.5			4
	10	25.5	25.8	27.1	31.6	25.8	28.4	27.7	24.5			0.10
	6	9.0 18.1	11.0	9.0 15.5	1.6	14.8	12.9	14.8	20.02			9.5 14.6 77.0
	8	0.6	12.3	0.6	7.6	0.6	11.6 12.9	9.6	7.1			0
SKY COVER	1	6.5	823	7.1	7.6	6.5	3.9	7.7	3.9			7 7
OF TOTAL	9	20	8.4	8	3.9	6.5	3.5	3.5	5.5			24
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	5	2.6	3.9	3.2	1.9	1.3	3.9	2.6	3.9			
E FREQUENC	,	5.8	4.5	3.2	4.5	5.5	80	5.6	4.5			4
PERCENTAG	8	3.9	5.2	5.8	4.5	6.5	3.9	5.2	٠. عه			0 7
	2	4.5	3.2	5.5	4	8.4	7.1	11.0	9.6			
	-	10.3	9 4	7.7	6.5	7.6	11.6	10.3	11.0			4
	•	4 8	11.6	10.3	7.6	4	7.7	6.5	50			4
HOURS	(L.S.T.)	00	03	90	60	12	15	60	. 21			ALS
		AN										TOTALS

0

0

SKY COVER

MC MURDO STATIONS ANTARCTICA 87501 STATION

73-76

PERIOD

MONTH MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

(1.51.) 0 1 2 3 4 5 6 7 8 6 7 8 9 10 SERVINOR NO CLEATION OF 2.7 3.6 2.7 2.7 7.1 1.8 10.7 20.5 39.3 7.7 7.1 1.8 10.7 20.5 39.3 7.7 7.1 1.8 10.7 20.5 39.3 7.7 7.1 1.8 10.7 20.5 39.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5		HOURS				PERCENTAG	E FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	S OF TOTAL	SKY COVER				MEAN	TOTAL
00 2.7 3.6 5.4 3.6 2.7 2.7 7.1 1.6 10.7 20.5 39.3 7.7 0.3 5.1 2.6 5.1 1.3 5.1 6.4 6.4 19.2 15.4 33.3 7.5 0.5 5.3 1.8 3.5 1.3 5.2 9.1 7.8 27.3 35.1 7.7 1.2 6.5 5.2 2.6 9.1 7.8 27.3 35.1 7.7 1.5 6.5 2.6 9.1 3.9 1.3 5.2 9.1 7.8 27.3 35.1 7.7 1.8 6.5 2.6 9.1 14.3 46.8 7.5 1.5 6.5 11.5 16.8 49.6 7.8 1.5 6.5 1.8 1.3 7.8 3.9 1.3 2.6 5.2 5.2 23.4 39.0 7.5 1.5 5.0 3.9 3.8 3.1 2.0 2.0 4.5 5.5 10.5 19.7 39.9 7.6	MONTH	(LS.T.)	0	-	2	8	1	3	•	7	80	٥	01	SKY COVER	OBS.
05 5.1 2.6 5.1 1.3 5.1 6.4 6.4 19.2 15.4 33.3 7.5 05 5.3 1.8 3.5 .9 4.4 2.7 5.3 8.8 12.4 23.0 31.9 7.6 09 6.5 5.2 1.3 1.3 1.3 1.3 5.2 9.1 7.8 27.3 35.1 7.7 12 5.3 4.4 2.7 2.7 1.8 .9 3.5 6.2 11.5 16.8 44.2 7.8 15 6.5 2.6 9.1 3.9 1.3 2.6 3.9 9.1 14.3 46.8 7.5 18 6.2 3.5 3.5 3.9 1.3 2.6 5.2 5.2 23.4 39.0 7.5 21 2.6 7.8 1.3 7.8 3.9 1.3 2.6 5.2 5.2 23.4 39.0 7.5 21 2.6 7.8 1.3 7.8 3.9 1.3 2.6 5.5 10.5 19.7 39.9 7.6	EB	00	2.7	3.6	5.4	3.6	2.7	2.7	7.1		10.7		39.3	7.7	112
06 5.3 1.8 3.5 9 4.4 2.7 5.3 8.8 12.4 23.0 31.9 7.6 12 6.5 5.2 1.3 1.3 1.3 1.3 5.2 9.1 7.5 7.7 12 5.3 4.6 2.7 2.7 1.6 .9 3.5 6.2 11.5 16.8 44.2 7.8 15 6.5 2.6 9.1 14.3 2.6 3.9 9.1 14.3 46.8 7.5 18 6.2 3.5 3.5 3.9 1.3 2.6 3.9 9.1 14.3 46.8 7.5 21 2.6 7.8 3.9 1.3 2.6 5.2 23.4 39.0 7.5 21 2.6 7.8 3.9 1.3 2.6 5.2 23.4 39.0 7.5 21 2.6 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 <		03	5.1	2.6	5.1	1.3		5.1	4.0	4.9	19.2	15.4	33,3	7.5	78
09 6.5 5.2 9.1 7.8 27.3 35.1 7.7 12 5.3 4.4 2.7 2.7 1.8 .9 3.5 6.2 11.5 16.8 44.2 7.8 15 6.5 2.6 9.1 14.3 6.6 18.9 7.5 18 6.2 3.5 3.5 3.5 3.9 1.3 46.8 7.5 21 2.6 7.8 3.9 1.3 2.6 5.2 5.2 23.4 39.0 7.5 21 2.6 7.8 3.9 1.3 2.6 5.2 5.2 23.4 39.0 7.5 21 2.0 3.9 3.1 2.0 2.0 4.5 5.5 10.5 19.7 39.9 7.6		90	5.3	1.8	3.5	6	4.4	2.7	5.3	80	12.4		31.9	7.6	113
12 5.3 4.4 2.7 2.7 1.8 .9 3.5 6.2 11.5 16.8 44.2 7.8 15 6.5 2.6 9.1 14.3 46.8 7.5 15 6.5 2.6 9.1 14.3 46.8 7.5 18 6.2 3.5 3.5 3.5 3.9 1.3 2.6 5.2 2.7 8.0 16.8 49.6 7.8 21 2.6 7.8 1.3 7.8 3.9 1.3 2.6 5.2 5.2 23.4 39.0 7.5 5.0 3.9 3.8 3.1 2.0 2.0 4.5 5.5 10.5 19.7 39.9 7.6		60	6.5	5.2		1.3	1.3	11.3	5.2	9.1	7.8		35.1	7.7	11
15 6.5 2.6 3.9 1.3 2.6 3.9 9.1 14.3 46.8 7.5 18 6.2 3.5 3.5 .9 1.8 3.5 2.7 8.0 16.8 49.6 7.8 21 2.6 7.8 1.3 7.6 3.9 1.3 2.6 5.2 5.2 23.4 39.0 7.5 21 2.6 3.9 3.9 3.1 2.0 4.5 5.5 10.5 19.7 39.9 7.6		12	5.3	4.4	2.7	2.7	1.8	6	3.5	5.9	11.5	16.8	44.2	7.8	113
18 6.2 3.5 3.5 2.7 8.0 16.8 49.6 7.8 21 2.6 7.8 3.9 1.3 2.6 5.2 23.4 39.0 7.5 21 2.6 7.8 3.9 1.3 2.6 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.3 39.9 7.6		15	6.5	2.6	9.1	3.9	1.3		2.6	3.9	9.1		46.8	7.5	11
21 2.6 7.8 3.9 1.3 2.6 5.2 5.2 5.2 5.3.4 39.0 7.5 5.0 3.9 3.8 3.1 2.0 2.0 4.5 5.5 10.5 19.7 39.9 7.6		8	5.9	3.5	3.5	3.5	6.	1.8	3.5	2.7	8.0	16.8	9.65	7.8	113
5.0 3.9 3.8 3.1 2.0 2.0 4.5 5.5 10.5 19.7 39.9 7.6		21	2.6	7.8	1.3	7.8	3.0	-	2.6	5.2	5.2	23.4	39.0	7.5	77
5.0 3.9 3.8 3.1 2.0 2.0 4.5 5.5 10.5 19.7 39.9 7.6															
5.0 3.9 3.8 3.1 2.0 2.0 4.5 5.5 10.5 19.7 39.9 7.6															
5.0 3.9 3.8 3.1 2.0 2.0 4.5 5.5 10.5 19.7 39.9 7.6															
5.0 3.9 3.8 3.1 2.0 2.0 4.5 5.5 10.5 19.7 39.9 7.6															
	101	ALS	5.0	3.9	3.8	3.1	2.0	2.0	4	5.5		19.7	39.9	7.6	760

0

5704 SKY COVER JAN 68

STATION MC MURDIN STATIONS ANTARCTICA

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(L.S.T.)	0	-	2	3	,	5	9	7	80	6	10	SKY COVER	065.
MAR	00	12.1	7.3	9.4	8.1	3.2	8.4	2.4	3.2	6.5	6.5 11.3 36.3	36.3	6.3	124
	03													
	90	1.6	5.6	1.0	5.6	3.2	8.4	0.4	9.6	7.6		7.3 47.6	7.7	124
	60													
	12	5.6	2.4	2.4	4.0	1.6	1.6	3.2	7.3	11.3	7.3 11.3 12.9 47.6	47.6	7.9	124
	2													
	18	0.4	5.6	4.8	4.0	3.5		6.5	6.9	0.0	8.9 12.9 43.5	43.5	7.5	124
	21													
101	TOTALS	8.00	5.2	3.4	5.4	2.8	2.8	4.0	6.9		9.1 11.1 43.8	43.8	7.4	496

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SKY COVER

MC MURDE STATIONS ANTARCTICA 87601 STATION

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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HOURS (L.S.T.) 0 1 2 3 4 5 6 7 00 33.3 10.0 8.3 4.2 2.5 2.5 2.5 3.3 03 04 25.0 5.8 5.8 4.2 2.5 5.8 3.3 6.7 09 25.0 5.8 5.8 5.8 4.2 5.0 3.3 2.5 15 10.8 2.5 10.8 4.2 5.0 3.3 2.5 18 13.3 6.7 10.0 5.0 10.0 2.5 2.5 5.0
25.0 5.8 5.8 10.8 2.5 10.8 13.3 6.7 10.0
25.0 5.8 5.8 10.8 2.5 10.8 13.3 6.7 10.0
33.3 10.0 8.3 25.0 5.8 5.8 10.8 2.5 10.8 13.3 6.7 10.0
25.0 5.8 5.8 10.8 2.5 10.8 13.3 6.7 10.0
33.3 10.0 25.0 5.8 10.8 2.5 13.3 6.7
33.3 1 25.0 10.8 13.3
ноива (LS.T.) 0.0 0.0 0.0 0.0 1.2 1.5 1.8

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5704 SKY COVER JAN 68

73-76

MC MURDO STATIONS ANTARCTICA

STATION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	088.	124	-	124	7	124	-	124	1		500
MEAN	SKY COVER	4.7	2.0	5.0	0.6	9.9	3.0	5.8	9.0		5.9
	01	30.6		33.9		49.2		38.7			19.1
	6	3.2		89.	0.001	9.6		3.2	0.001		26.6 19.1
	80	6.5		6.5		3.2		6.5			2.8
SKY COVER	7	3.2		1.6		2.4		2.4			1.2
OF TOTAL	•	1.6		0.4		0.4		3.2			1.6
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	3	0.4		3.2		204	0.001	5.6			1.6 14.4
FREQUENC	•	3.2		60		3.2		3.6			1.6
PERCENTAG	8	æ		7.3		3.2		6.5			2.2
	2	7.3	0.00	6.4		5.9		60			15.5
	-	2.4		1.6		3.2		1.6			1.1
	0	37.1		30.6		16.9		25.8			13.8
HOURS	(L.S.T.)	00	03	90	60	77	15	18	21		STN
navon.	WOW!	МАУ									TOTALS

SKY COVER

MC MURDO STATIONS ANTARCTICA 87501 STATION

73-76

PERIOD

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	Y OF TENTHS	OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(LS.T.)	0	-	2	8	7	s	•	1		Ф.	2	SKY COVER	OBS.
IUN	00	33.6	1.7	1.7	2.5	3.4	80	3.4	6.7	5.0	80	40.3	5.5	119
	03													
	90	37.0	3.4	3.4	3.4	2.5	1.7	1.7	5.0	4.2	1.7	36.1	6.4	119
	00													
	12	36.7	2.5	5.0	3.3	5.0	8	1.7	4.2	5.0	1.7	34.2	4.8	120
	15													
	18	32.8	1.7	2.5	1.9	5.0	1.7	4.2	2.5	4.2	1.7	37.0	5.2	119
	21													
10	TOTALS											1		
		35.0	2.3	3.2	4.0	0.4	1.3	2.8	4.6	4.0	6.9	1.5 36.9	5.1	417

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

87601 STATION

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	VOID				PERCENTAG	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	Y OF TENTH	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(1.8.1.)		-	2	3	•	S	•	7	80	٥	01	SKY COVER	088.
101	00	34.7	2.4	4.0	8.1	2.4	4.8	0.4	3.2	3.2		33.1	4.7	124
	03													
	90	33.1	20	4.0	4.0	4.0	1.6	4.8	4.0	6.5	4.5	34.7	5.2	124
	60													
	1,	36.6	3.2	9	8.9	8.4	3.6	2.4	6.4	4.0	1.6	36.3	5.3	124
		37.1	1.6	1.6	6.8	1.6	4.2	3	0.4	20.	2.4	32.3	4.8	124
	3													
5	TOTALS	32.9	2.0	3.0	7.5	3.2	2.8	3.6	4.0	4.6	1.6	1.6 34.1	5.0	496

SKY COVER

STATION MC MURDO STATIONS ANTARCTICA

13-76

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2.4 4.0 2.4 4.1 8.9 33.3 4.1 8.9 .8 5.6 7.3 4.8	2.4	•						TENTUE	TOTAL
2.3	-	,	•	,		6	01	SKY COVER	OBS.
2.3		2.4	80	6.6	5.6		39.5	5.2	124
9.9							16.7	2.7	٥
7.3	4.1	2.4	(2)	5.7	4.1	1.6	31.7	4.6	123
7.3	10.0	10.0				20.0	30.0	5.8	10
	2.4	3.2	2.4	6.5	9	6.5	34.7	0.0	124
8.3 16.7 8.3		8.3		16.7	8 3	16.7	6.3	5.3	12
7.3 4.8 5.6	8 · R	3.2	2.4	3.2	4.8	6.5	33.9	5.4	124
8.3 25.0							33.3	4.3	12
4.7 6.3 10.0	3.0	3.7	39	4.6	4.0	4.0	28.5	4.9	535

MC MURDO STATIONS ANTARCTICA 87601 STATION

73-76

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				PERCENTAG	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	Y OF TENTH	S OF TOTAL	SKY COVER				MEAN	TOTAL
0	\vdash	-	2	6	•	3	9	7	80	6	9	SKY COVER	OBS.
20.8		6.7	7.5	7.5	5.8	8	1.7	4.2	4.2	5.8	35.0	5.5	120
25.4		16.9	7.0	5.6	104	104	1.4	2.8	7.0		31.0	4.5	11
15.8		10.0	5,00	5.0		1.7	6.7	5.6	4.2	3.3	40.8	0.0	120
12.2		10.8	4.1	5.4	2.7	5.4	6.8	3.4	10.8	6.8	29.7	0.9	74
13.3		5.8	3,3	5.0	5.8	33		9.2	7.5	5.8	40.8	6.5	120
18.1		4.2	4.2	6.9	8.3	1.4	5.6	4.2	12.5	2.8	31.9	5.8	72
10.8	na	4.2	8.3	6.7	3.3	1.7	4.2	9.2	4.2	10.8	36.7	6.5	120
20.5	in	6.8	12.3	6.6	2.7		6.9	2.7	4.1	5.5	31.5	5.5	73
17.	_	8.2	6.6	6.1	3.9	2.0	4.2	5.4	8.9	5.1	34.7	5.8	770
	1												

SKY COVER

MC HURDO STATIONS ANTARCTICA 87601 STATION

TOTAL	OBS.	124	115	124	116	124	116	124	116		
MEAN	SKY COVER	5.5	5.5	5.8	5.6	5.7	5.7	5.9	5.5		
	01	27.4	22.6	24.5	24.1	24.2	22.4	22.6	24.1		
	6	12.9	20.02	13.7	12.9	13.7	18.1	16.9	13.8		
	80	5.6	7.0	10.5	6.9	10.5	10.3	4.1	6.9		
SKY COVER	7	5.6	1.7	7.3	11.2	8.9	6.0	7.6	6.9		
OF TOTAL	•	89	3.5	3.2	3.4	503	1.7	2.4	3.4		
OF TENTHS	8	5.6	2.6	4.8	4.3	5.6	6	4.0	3.4		
FREQUENCY	1	0.4	2.6	1.6	2.6	20	3.4	2.4	3.4		
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	3	3.2	1.9	4.8	3.4	3.2	3.4	3.2	4.3		
	2	3.2	1.7	3.2	1.7	3.2	3.4	2.4	5.2		
	-	9.7	7.8	4.0	6.0	7.3	6.0	6.5	6.9		
	0	21.8	24.3	22.6	23.3	21.8	23.3	20.2	21.6		
HOURS	(L.S.T.)	00	0.3	90	60	12	15	60	17		SI
7	MONIE	130									TOTALS

SKY COVER

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5704 SKY COVER JAN 68

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

73-76

MC MURDO STATIONS ANTARCTICA

87501 STATION

	HOURS				PERCENTAG	E FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(LS.T.)	0	-	2	6	-	8	•	7	8	6	01	SKY COVER	OBS.
NON	00	14.2	10.8	5.0	3.3	33	5.0	2.5	6.7	10.8	17.5	23.3	0.0	120
	03	16.8	10.1	6.7	2.5	3.4	3.4	2.5	7.6	9.2	12.6	25.2	5.7	119
	90	15.0	8.3	6.7	6.7	5.0	5.0	1.7	5.0	10.8	8.5	26.7	5.7	120
	60	14.2	13.3	7.5	3.3	3.3	3.3	4.2	5.8	5.0	15.0	25.0	5.6	120
	12	15.0	12.5	5.0	4.2	3.3	2.5	7.5	8.3	7.5	11.7	22.5	5.5	120
	15	16.7	10.8	9.2	5.8	2.5	1.7	5.8	9.2	9.2	6.3	20.8	5.2	120
	60	13.3	10.8	6.7	4.2	1.7	80	4.2	8.3	7.5	13.3	21.7	5.7	120
	21	9.2	11.7	7.5	00	3.3	5.8	6.7	3.3	7.5	22.5	21.7	1.9	120
5	TOTALS	14.3	11.0	6.8	3.9	2.9	4.4	4.4	6.8	8.4	13.8	23.4	5.7	959

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SKY COVER

STAGOL MC MURDO STATIONA ANTARCTICA

73-76

DEC

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	0.00	124	123	124	123	124	123	124	122		987
MEAN	SKY COVER	6.1	6.3	9.0	6.5	0.9	0.9	6.1	2.9		6.2
	02	25.8	24.4	32.3	30.9	23.4	25.5	56.6	23.8		26.6
	6	12.1	21.1	17.7	15.4	18.5	15.4	15.3	16.4		7.4 16.5 26.6
	80	12.9	6.5	4.0	3.3	7.3	11.4	6.5	7.4		7.4
SKY COVER	7	30	5.7	5.6	8.1	4.0	2.4	8.4	4.9		5.0
OF TOTAL S	0	60	6.4	0.4	6.4	7.3	2.4	8.	7.4		5.1
OF TENTHS	2	0.4	2.4	5.6	3.3	0.4	6.4	5.6	2.1		4.4
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	-	2.4	6.9	0.4	4.1	2.4	5.7	9.6	2.1		4.4
PERCENTAGE	8	6.5	6.5	7.3	1.6	8.1	7.3	7.3	4.9		5.9
	2	10.5	6.5	3.5	7.3	5.6	6.4	8.	0.6		6.5
	-	10.5	8.9	6.8	9.8	6.5	6.8	6.5	2.0		8.5
	0	5.6	8.1	7.3	11.4	12.9	11.4	12.1	9.0		7.6
HOURS	(L.S.T.)	go	03	90	60	12	15	18	12		SI
The state of	WOW I	DEC									TOTALS

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5704 SKY COVER JAN 68

73-77 MC MURDO STATIONS ANTARCTICA

87601 STATION

PERIOD

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	0.00	1240	760	496	480	500	477	496	535	770	656	656	987	8659
MEAN	SKY COVER	6.2	7.6	7.4	5.5	5.9	5.1	5.0	4.9	5.8	5.7	5.7	6.2	8.9
	10	27.0	39.9	43.8	32.7	19.1	36.9	34.1	28.5	34.7	24.0	23.4	26.6	30.9
	٥	14.6	19.7	11.1	6.3	26.6	1.5	1.6	6.4	5.1	15.3	13.8	16.5	11.5
	&	9.5	10.5	9.1	5.2	2.6	4.6	4.6	4.0	8.0	4.6	4.0	7.4	9.9
SKY COVER	7	4.0	5.5	6.5	4.4	1.2	9.4	4.0	4.6	5.4	7.3	8.0	5.0	3.1
OF TOTAL	9	5.3	4.5	4.0	2.9	1.6	2.8	3.6	8	4.2	2.4	4.4	5.1	3.5
OF TENTHS	20	2.9	2.0	2.8	2.7	14.4	1.3	2.8	3.7	2.0	3.9	4.4	4.4	3.6
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	4	4.5	2.0	2.8	5.4	1.6	0.4	3.5	3.0	3.0	2.6	5.9	4.4	3.4
PERCENTAGE	6	6.4	3.1	5.4	8.4	2.2	0.4	7.5	10.0	6.1	0.4	3.9	5.9	5.2
	2	7.0	3	3.4	8.7	15.5	3.2	3.6	6.3	9.9	3.0	9	6.5	6.2
	-	4.6	3.9	5.2	6.3	7	2.3	2.0	4.7	8.2	6.8	11.0	6.5	5.8
	0	9	0.5	20	9.02	13.8	35.0	32.9	28.0	17.1	22.4	14.3	9.6	17.7
HOURS	(LS.T.)	ALL												STI
	MONIH	JAN	5 53	MAR	APR	МАУ	NOT	101	AUG	SEP	מכד	NON	DEC	TOTALS

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PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

- Cumulative percentage frequency of occurrence derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
- a. Daily maximum temperature
- o. Daily minimum temperature
 - c. Daily mean temperature
- Extreme values derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months Means and standard deviations are computed for months and annual when four or more values are present for any column. for a year must have valid extremes before the ANNUAL value is selected for that year. of daily extreme temperatures are prepared: ä
- . Extreme maximum temperature . Extreme minimum temperature
- NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
- Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and The following information is provided: all years combined. 3
- Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb which may require two pages in some cases.

A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares $(\sum X^2)$, sums of values (X), means (X), and standard deviations (σX) . The number of observations used in the computations for each element is also shown. å
- dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in At the lower right of the form are given the mean number of hours of occurrence for six ranges of the annual summary, or mean number of hours per month in the tabulations by month. ;
- Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.
- Means and standard deviations These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
- . Dry-bulb temperature
 - Wet-bulb temperature
- c. Dew-point temperature
- Cumulative percentage frequency of occurrence of relative humidity This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables. 5
- Table 1 is prepared by month and annual, all years combined, with month being the vertical argument. a.
- Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary. è,
- The main body of the summary consists of dry bulb temperatures spread vertically in four degree incre-Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. ments and horizontally by eight wind directions (plus calm). 9

DAILY TEMPERATURES

MUNDE STATION ANTARCTICA

56-77

MAXIMUM

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM DAILY OBSERVATIONS)

17.242 0 ANNUAL 2021 2011 57.9 97.8 31.5 21.2 5.7 .3- 3.9- 2.9- 7.5- 9.9- 5.1- 3.3 20.4 30.2 5.06 7.353 9.94110.11210.98810.54512.00411.81411.31810.071 6.780 5.120 651 565 5641 528 617 608 550 547 626 650 630 651 DEC. 942999 NON 9 SEP AUG. 100.0 JUL N 22.00.1 22.00.0 22.00.0 20.00.00.0 20.00.0 20.00.0 20.00.0 20.00.0 20.00.0 20.00.0 20.00.0 20. MAY このこ 100.0 APR MAR 966.99 100.0 FEB 99.00 Z 25.25 * Choronono TOTAL OBS MEAN S.D.

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NAVWEASERVCOM

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DAILY TEMPERATURES

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MC MURDO STATION ANTARCTICA STATION

MINIMUM

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

TEMP (°F)	(J.	JAN	FEB.	MAR.	APR.	MAY	JUN	JUL	AUG.	SEP.	OCT.	NOV.	DEC.	ANNOAL
	35	2												0.
	30	7.2	.2									.2	6.0	-
	2.5	36.9	3.4									1.0	29.2	0.0
	20	71.9	15.4	9.								8.1	69.1	13.
	1.5	91.9	40.4	2.7		. 5	.2	.2	.2	.2		27,8		21.5
	10	98.8	63.5	8.9	2.1	1.1	2	9.			1.8			27.4
AI	8	8.66	84.6	17.9	5.6	3.9	3.1	1.8	. 8	1.6	9.2		99.8	33.5
AI	0	100.0	0.46	31.2	14.2	7.6	8.7	4.8	1.5	8.9	18.7		-	39.5
AI	3.		98.8	50.1	25.0	13.9	15.1	9.8	3.1	10.5	34.1	96.7		46.3
٨١	10-		8.66	67.2	40.B	25.6	26.8	16.8	10.7	20.4		99.4		54.
٨١	15-		100.0	82.2	56.7	40.4	41.8	29.1	19.2	34.5	67.7	99.8		64.
AI	-07			93.6	74.2	59.6		44.5	32.0	48.9	81.0			74.6
AI.	25-			98.3	89.6	74.6	77.8	58.2	48.4	66.1	88.9			83.6
Al	30-				96.8	88.2		en e	8.99	83.7	96.8			91.3
AI	33.			99.66	4.66	95.1	97.0	87.2	81.0	1006	986			95.6
Al	-04				100.0	98.1		95.8	91.0	98.2	100.0			98
AI	48-					2.66	100.0	98.6	96.4	49.7				66
AI.	-06			100.0		100.0		99.5	98.9	100.0				66
11	55.							8 66						10000
	-09							100.0	-					100.0
ΛI														
AI														
AI.														
AI														
MEAN	7	22.3	12.0	2.4-	12.8-	17.3-	16.8-	2	25	20.1-	10.5-	6.6		5.3-
S. D.		5.408	7.3361	10.3241	0.442	11.336	10.0561	=	-	11.3601	01	7.500	5.008	19.237
TOTAL OBS.	.S8C	169	598	149	628	617	608	650		929	651	630		7565

NAVWEASERVCOM

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DAILY TEMPERATURES

MC MURDO STATIONA ANTARCTICA STATION

56-77

MEAN

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

(1)	JAN.		MAR.	J. W.	I WW			.000	SEr.	3			
2	.2												0.
35	6.5												.7
	32,9	1.8											5.2
	72.7	15.0	2								6.3	65,3	13,5
20	93.5	39.1	2.2	• 2	.2	. 2			.2		27.8		21.4
> 15	98.9	64.2	8.3	1.9	9.			. 3	. 8	1.7	56.7		27.8
> 10	99.8	85.1	17.9	6.8	4.2		1.6		2.2	10.2	81.0		34.2
5	10000	94.7	36.2	13.1	9.1	10.	5.7	2.8	6.9	23.5	91.9	_	41.1
0		98.4	52.1	26.9	17.3		10.9	7.4	*	39.4	97.6		48.4
		99.8	69.1	43.0	30.6	31.	20.5	13.9	26.5	58.0	89.8		57.6
		100.0	65.0	65.3	47.8	51.5	34.0	26.7	2	75.2	10000		68.6
			94.2	80.6	65.2	70.	50.6	39.9		86.0			78.5
			98.6	91.2	80.2	82.	65.5	54.9		91.8			86.4
			99.8	98.6	92.1		78.5	74.0		7.76			93.4
> 30.	•		90.8	99.8	97.2	96	91.2	86.7		99.8			97.3
	•		100.0	100.0	49.7		97.5	0.96	66	100.0			4.66
-0+					100.0	100.	4.66	98.3	~				99.8
							8.66	99.7					100.0
	•						100.0	100.0					100.0
AI													
AI													
AI													
AI													
AI													
MEAN	2.7.2	16.9	2.	-9.9	10.9-	10.0-		17.9-	2	3.7-		26.0	
S. D.	4.949	7.0951	690.0	0.115	0.884	10-11510-88410-3291	11.67411	1.283	11.041	0.379	6.639		18.261
10141 000			774	4 5 5	411					2			

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NAVWEASERVCOM

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TURNIT

DAILY AVERAGE/EXTREME TEMPERATURES

1957-1977

STATION NAME

STATION 87601

MC MURDO STATION

YEARS

MONTH JANUARY

		DATE	_	1976	1964	1964	1964	-		-	-	-		1960	1960	1964	19584	1960	1960	1960		-	1960		1964	1976	1963	1957	1975	1975	1972	1974	1962	1940
EMP	EXTREME	၁ွ	-9.9	-11.1	-9.4	-1111	-111.1	-10.0	-10.6	-7.8	-7.8	-8.9	6.8-	1:11-	-11.1	-8.9	**6	-111.1	-12.2	-13.9	-15.6	-13.9	-11.7	-10.0	-13.3	-12.2	-	-12.2	-12.8	-13.9	-13.3	-15.0	-12.2	7.5
MINIMUM TEMP	EXT	J°,	91	12	1.5	12	12	14	13	18	18	16	16	75	12	91	1.5	1.2	01	•	*	•	-	1.4	6 0	10	12	01	6	-	00	\$	01	4
	GE	၁့	-3.6	-4.2	-4.3	6.4-	6.4-	8.4-	5.4-	2.4.	-3.9	-3.8	-3.7	205-	1.4-	8.4-	-5.0	1.9-	49.64	#5.4	6.5.	6.6-	2.9-	-5.6	-5.7	-6.7	-601	8.9.	6.9-	-1.3	1.4-	1.4	=7.3	-5.4
	AVERAGE	₽°	25.5	24.5	24.5	23.2	23.2	23.3	23.2	24.5	25.0	25.1	25.3	24.5	24.7	23,3	23.0	21.0	22.3	22.3	21.3	21.4	20.8	21.9	21.8	19.9	19.9	19.8	19.5	18.9	19.3	19.3	18.8	23.3
		DATE	1974%	1974	1974*	1974	1974	1974	1959	1970	1974	1976	1961	1977*	1973*	1965	1977*	1976	1976	1972	1958	1972*	1977*	1977*	1977#	1961	1973*	1973*	1961	1961	1961	1970	1971*	1074
MP	EME	၁့		8.3	6.7	2.0	6.7	3.6	3.9	6.7	5.0	5.0	9.6	4.4	5.0	5.6	3.9	2.8	3.9	3.9	3.3	2.8	2.8	4.4	3.3	4.4	2.8	2.2	9.0	1.7	5.0		2.2	0
MAXIMUM TEMP	EXTREME	9°	04	47	44	1,4	44	74	39	44	14	4.1	75	04	14	24	36	37	39	39	38	37	37	40	38	40	37	36	33	35	14	38	36	4.7
M	GE	o°.	0.7	1.1	0.5	**0	-0-1	-0.7	4.0	0.3	4.0	9.0	1.1	6.0	1.0	9.0	-0-1	0.0	-0-1	-0-1	6.0-	9.0-	0.0	-0.3	9.0-	-1.2	-0.5	-0-7	-2.3	-1.9	-1.8	-1.7	-2.1	7
	AVERAGE	4 °	33.2	33.9	32,3		31.8		32.7	32.6	32.7	33.1	34.0	33.5		33.0	31.8	32.0	31.8	31.9			32.0			59.6	31.1	30.7		28.5		28.9	28.3	
MP	36	٥,	-1.5	-1.6	-2.1	-2.2	-2.5	-2.8	-2.2	6-1-	-1.7	-1.6	-1.3	-1.7	-1.6	-2.1	-2.6	-3.1	-2.8	-2.7	+9.6-	-3.3	-3.1	-2.9	-3.2	-3.9	-3.6	-3.8	9.4.	9.4-	-4.4	4.4-	-4.7	
MEAN TEMP	AVERAGE	4 °	29.3	29.2	28.3	28.0	27.5	27.0	28.0	28.5	28.9	29.1	50.62	29.0	29.5	28.2	27.4	26.5	27.0	27.1	55.9	26.1	26.4	26.7	26,3	24.9	25.5	25.2	23.7	23.7	24.0	24.1	23.5	24 0
	_	DAY	-	2	3	4	2	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION NAME

STATION 87601

MC MURDO STATION

1957-1977

MONTH FEBRUARY

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		DATE	1975*	1968	1968*	1961	1968	1975	1962	1962	1971	1959	1962	1960	1960	1960	1960	1960	1960	1960	1960	1964*	1961	1961	1961	1961	1964	1976	1964	1964	1976		1976
MP	EME	ွ	-14.4	-13.9	-12.2	-	-14.4	-16.7	-15.0		-	-	-	-16.1	-		-	-	-19.4	-19.4	-18.3	-18.9	1.12-	-20.0	-17.8	6.81-	0.	+10.4		1.7	-23.9		-53.9
MINIMUM TEMP	EXTREME	o,	9	•	10		9	2	2	9	6	6	9	2	-	3.			6.		•	-2	9.	5.	0	2.	2.			4.	11.		7
2	36	၁့	2.8-	-1.1	-7.8	-8.3	-8.5	-8.5	-7.9	-8.9	-8.4	-8.2	9.6-	-10.5	-10.0	-11.2	-110	-11.0	8.01-	-1201	-12,3	1.21-	2.21-	-11.9	-13.1	-15.1	-13.1	-14.0	4.61-	2.01-	-17.8		6.01-
	AVERAGE	٠ د	17.2	18.1		17.0	16.7	16.7	17.6	15.9	16.8	17.2	14.7	-	-	-	10.9	12.2	12.5	1.6	9.8	10.3	10.0	10.6	8.4	1.6	8.4	5.7	7.4	5.9	0.0		12.3
		DATE	1967*	1961	1967*	1958	1958	1958	1958	1975	1975	1958	1967*	1967*	*6961	1976	1976	1976	1976	1972*	1958	1972	1972	1972	1962	1968	1962	1968*	1968*	1970	1968		1958
1P	ME	ွင	9	1.7	1.7	3.9	2.2	1.7	107	9.0	1.1	-101	-	-2.2	-	0			0	1:1	9.	-	8.2.		-2.2	-2.2	-1.1	-3.3	4.4	-5.6	1.9-		 3.9
MAXIMUM TEMP	EXTREME	L °	33	35	35	39	36	35	35	33	34	30	53	28	28	32	34	33	32	34	31	32	2.2	58	28	82	30	92	24	22	2.1		39
YW .	GE	ပ	-2.8	-2.8	-2.2	-3.1	-3.6	-3.5	-3.1	-3.4	-3.2	-4.3	-5.0	-6.1	-5.7	-6.3	-5.7	.5.8	0.9-	-7.2	6.9-	+.9-	9.9-	+0.4	4.4	6.4-	-8.4	8.6=	9.01-	-11.8	-13.0		8.6-
	AVERAGE	L °			28.1					25.8			23.0		21.8				21.2		19.6				18.6	17.7		14.3	13.0	10.8	8.6		21.5
d		၁့	-5.5	-5.3	-5.0	-5.7	-6.0	8.5.8	-5.4	-6.2	8.6-	-6.3	=7.3	-8.3	-8-3	-8.7	-8.7	-8.4	+ 8 -	6.6-	9.6-	-9.3	4.6-	-9.2	-10.3	-10.3	-10.7	-12.2	13.0	13.9	15.4		+8.4
MEAN TEMP	AVERAGE	.	22.1	22.5	23.0	21.7	21,2	21.5	22.22	8.02	21.5	20.7	18.9	17.1	17.1	16.3	16.4	16.8	16.8	14.1		•		•	•			0.	_	6.9	4.3		16.9
	L	DAY	1	2	8	4	5	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Monthly

*ALSO ON EARLIER YEARS

DAILY AVERAGE/EXTREME TEMPERATURES

STATION NAME

MC MURDO STATION

1956-1977

MONTH

MARCH

YEARS

		DATE	1976	1974	1974*	1963	1958	1958	1960	1968	1968	1956	1968	1968	1965	1962	1962	1962	1974	1975*	1974	1974	1461	1961	1962	1964	1964	1960	1965	1962	1962	1965	1960	1965
MP	EME	၁့	-23.9	-24.4	-24.4	-24.4	-27.2	-25.0	6.62-	-25.6	-26.7	-26.7	-26.1	-56.7	-28.9	-28.3	-27.8	-31.1	-32.2	-31.1	-32.2	-30.0	-30.6	-29.4	-59.4	-31.7	-32.2	-31.7	-35.0	-31.7	-33,3	-43.3	-34.4	-43.3
MINIMUM TEMP	EXTREME	40	-11	-12	-12	-12	-11	67.4	.11	+14	-16	-16	61-	97.	07-	61.		42=	-26	-24	-26	-22	67-	-21	12.	-25	26	-25	-31	57.	-28	-46	-30	940
2	GE	o°.	-16.8	-17.3	-17.1	-17.9	-18.2	-17.4	0.81-	-17.3	-17.1	-18.5	9.61-	-50.4		8.02-	-50.4	-21.5	-21.8	-21.7	-22.0	-21.4	-21.6	-21.2	-20.5	+.22-	-23,2	-22.4	9.22-	m	+·EZ-		-24.6	-50.6
	AVERAGE	₽°	1.8	6.0	1.3	-0.3	-0-1	9.0	+0-	6.0	1.3	-1.3	-3.5	-4.7	1.9-	-5.5	-4.7	-6.7	-7.2	-7.1	-7.6	-6.5	6.9-	-6.2	6.4-	-8.3	8.6-	-8.3	9.8-	**01-	-10.1	-12.0	-12.2	-5.0
		DATE	1967	1958	1958	1971	1970	1970	1970	1971*	1971*	1966	1966	1970	1970	1970	1976	1976*	1968	1968	1970	1970	1966	1966	1956	1956	1968	1975	1975	1966	1969	1972	1972	1972
ΛP	ME	၁့	-5.6	-3.9	-3.9	-5.6	-2.8	-2.8	-5.0	4.4	4.4-	4.4-	1.9-	-6.7	-6.7	-5.6	4.4-	-6.7	-5.0	-5.6	-5.6	-5.6	-7.8	-7.2	1.9-	-3.3	4.4-	-3.9	-5.6	-7.8	-6.1	-2.2	1.9-	-2.2
MAXIMUM TEMP	EXTREME	٠ ۲	22	25	25	22	27	27	23	54	54	54	212	20	20	2.2	54	20	23	22	22	22	18	19	2.1	92	54	28	22	18	12	28	20	28
N	IGE	၁့	-12.1	-12.2		-12.2	-11.8		-12.1	-11.4	-11.9	-12.8	-13.7	-14.4	-14.1	-14.7	-13.9	-14.5	-14.7		-15.2	-15.2		-15.0	-14.6	-15.1	-16.6	-16.0	-17.5	-17.0	-17.4	-17.1	-18.3	-14.4
	AVERAGE	4 °	10.2	10.1	8.6	10.0	10.8	10.5	10.2	11.4	10.5	8.9	7.3	0.9	6.7	3.6	6.9	5.9	5.5	4.4	4.6	4.7	3.4	5.0	5.7	6.4	2.2		0.5	1.4	0.7	1,3	6.0-	0.9
MP		၁့	-14.4	-14.7	-14.7	-15.1	-15.0	-14.7	-15,1	-14.3	-14.5	-15.7	-16.7	-17.4	-17.7	-17.8	-17.2	-17.9	-18.2	-18.5	-18.6	-18.2	-18.7	-18.1	-17.6	-18.7	-19.9	-19.2	-20.0	-20.3	-20.3	-20.7	-21.4	-17.6
MEAN TEMP	AVERAGE	۰,	0.9	5.5	9.6	8 . 4	5.0	5.5	4.8	6,2	5,9	3.7	2.0	9.0	0.2	0.0	0.1	-0.3	8.0-	-1.3	-1.4	-0.8	-1.7	-0.5	4.0	-1.6	-3.8	-2.5	0.4-	24.5	9.4.	-5,3	9.9-	4.0
		DAY	1	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29	30	31	Monthly

*ALSO ON EARLIER YEARS

BRA

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION 87601

DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION NAME

STATION 87601

12595 91981

MC MURDO STATION

1956-1977

APRIL

MONTH

YEARS

		DATE	1960	1965	1976	1976	1976	1957	1968*	1957	1961	1961	1968	1966	1975	1972	1960	1957	1957	*6961	1964	1961	1969	1969	1969	1963	1963	1956	1956	1956	1956	1956		1956
EMP	EXTREME	ပ	-33.9	-32.2	-35.0	-33.3	-35.6	-35.6	-32.8	-36.1	-37.2	-36.1	-33.9	-33.3	-33,3	-32.8	-33,3	-35.6	-35.6	-31.7	-33.9	-33.9	-33,3	-36.7	-32.8	-32.8	-36.7	-37.8	-38.9	-39.4	-37.8	-33.9		4.96
MINIMUM TEMP	EXTE	H _o	67-	92-	-31	97-	-35	260	120	-33	*33	• 33	67-	87-	87-	-23	87-	200	-35	57-	-29	-29	87-	-3¢	-23	12-	+6-	-36	86.	66.	36	67-		-39
	GE	٥	4.62-	-24.1	-24.2	-24.4	-53.9	2.65-	-45.6	6.92-	-55.5	-52.5	-255.2	2.42-	-5401	-23.8	-23.6	4.42-	-24.3	+ 62-	-23.4	-24.7	4.42-	-23.2	-22.9	8.22-	7.72-	-26.0	-52.3	-26.8	-27.0	-57.9		8.76-
	AVERAGE	₽°	-13.7	-11.3	-11.5	-12.0	-11.1	-13.3	-14.0	-10.4	-13.9	-13.9	-13.4	-11.6	-12.5	-10.9	-10.5	-11.9	9.11-	-10.1	-10.2	-12.4	-11.9	1.6-	E . 6 -	-9.1	-11.9	-14.8	-13.5	-16.2	-16.6	-18.2		4 61
		DATE	1972	1971	1971	1971	1971*	1961	1971	1969	1969	1963	1963	1963	1963	1970*	1961	1968	1968	1968	1968	1968	1965*	1962	1961	1975	1965	1965	1968	1970	1965	1956		1048
MIN	EME	၁့	1.9-	-7.2	7.7-	-5.0	-5.6	-7.8	6.8-	-7.8	-7.8	1.9-	-5.0	-5.6	-7.2	10.0	-7.8	-3.9	-5.6	1.9-	-10.0	8.7.	4.6-	-7.8	-8.3	1.9-	-7.2	-8.3	**6*	4.6-	-13.3	-13.9		3.0
MAXIMUM LEMP	EXTREME	u. °	50	19	54	23	22	1.85	16	18	1.00	21	23	22	19	14	18	25	22	20	14	18	1.5	18	17	20	19	17	1.5	1.5	90	7		36
	AGE	ပ	-17.2	-17.6	-17.8	-17.8	-17.8	-18.3	-20.0	-19.7	-19.2	-18.3	-18.9	-17.9	-17.1	-17.4	-17.6	-16.5	-16.3	-16.6	-17.2	-17.3	-17.1	-17.2	-16.2	-17.2	-17.4	-18.6	-19.2	-19.1	-19.3	0.02-		0 4
	AVERAGE	4 °	1.0		0.0	0.0	-0.1	0-1-	0.4-	-3.5	-2.5	6.0-	-2.0	-0.3	1.3	0.7	0.3	2.3	2.7	2.1	1.0	6.0	1.3	1.0	2.8	1.1	0.1	-1.4	2	-2.4		0.4-		0
MF	36	၁့	-21.3	-20.8	-20.9	-21.1	-20.9	-21.8	-22.8	-23.3	-22.3	-21.9	-22.1	-21.1	-20.8	-20.6	-20.6	-20.4	-20.3	-19.9	-20.3	-20.9	-20.7	-2005	-19.6		-20.9	-22.3	-22.3	-22.9	-23.2	-23.9		2010
MEAN LEMP	AVERAGE	4 °	.3	-5.4	.7	0.9-	-	.2	0.6-	0	-	4.1.	-	0.9-	-5.5	-5.0	-5.1	-4.7	-4.5	-3.9	-4.5	7.5-	.5,3	-4.3	-3.2	6.6-	-5.6	-8,1	-8-1	-9.3	-6.1	-11:1		7 4
		DAY	1	2	3	4	2	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mooshir

*ALSO ON EARLIER YEARS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION MC MURDO STATION NAME

STATION 87601

1956-1977

YEARS

DAILY AVERAGE/EXTREME TEMPERATURES

MAY

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MONTH

*016 *916 696 1966 1970 996 1965 1974 1963 1959 1964 1964 1971 1963 1961 1963 1963 1965 1963 1965 1972 1965 1965 1964 1967 1967 -40.0 -36.1 -40.6 9.04--35.0 9.04--38.3 -37.8 -38,3 -37.2 -37.8 -43.3 -41.7 -40.6 -36.7 -40.0 +44.4 -35.0 -36.7 -41.7 -33.3 -38.3 -34.4 -37.2 -36. -36.7 -36.1 -41.1 EXTREME MINIMUM TEMP -36 -36 450 -33 .. 64. 64.0 . 23 -33 .32 -37 .45 .3 14. 240 -29.6 -25,8 -27.5 2007--25.7 -28.1 -29.3 9.87--28.6 P.82--26,8 8.12-0.62--26.0 8.82--28.4 -27.6 2012--27.2 -29.2 2°c -28.3 -26.9 -26.8 -27.9 -28.7 -26.9 AVERAGE -19.6 -17.0 -20.6 -19.4 -15.2 -14.2 -14·8 -19.8 -18.6 -16.0 -20.8 -16.4 -19.2 -16.9 -19.0 -16.3 -16.5 -14.1 -14.4 -14.0 -17.5 -17.3 -16.3 -18.3 -21.3 -18. 1956 1974 1956 9661 1956 1970 1974 1972 1972 1956 1974 1959 1969 1964 1974 1974 1959 1969 1961 1972 1972 1965 1971 1971 1971 1971 1971 -10.0 6.8-8.1. .7.8 -10.6 -15.0 -11.1 -5.0 -2.8 -7.8 -7.2 -7.8 10.0 -8.3 6.8--8.9 10.0 10.6 -7.8 -8.9 . 8. -8.3 4:4. 1111 -8.9 4.6--5.6 -0.7 -0.1 1111 EXTREME MAXIMUM TEMP 9 0 9 8 4 * 8 54 8 4 -20.0 -20.8 -20.0 -20.6 -20.4 -20.0 -18.5 -19.8 -22.5 -19.4 -19.8 -20.5 -20.1 -18.0 -19.5 -20.8 -19.7 -19.4 -20.6 -20.7 -20.6 -20.0 -21.0 -18.9 -18.9 -19.7 -21.4 -17.3 -19.9 -19.7 AVERAGE 4.0--5.4 -3.4 -2.0 0.8 -3.0 -5.0 9.6-1.4--3.6 9.0 0.4. -2.9 -1.3 -2.0 -2.1 -24.8 -22.6 -24.9 -23.4 -24.9 -23.9 -23.4 -24.4 -21.9 -23.6 -23.9 -24.8 -23.6 -24.2 -23.4 -23.8 -24.7 -23.4 -23,8 -23.2 -22.4 -22.7 -24.3 -25.1 -23.9 -25.1 -22,1 -24.7 -24.1 MEAN TEMP AVERAGE 9.8. -12.6 -10.2 -10.5 1.6-9.9-4.1. -7.8 -10.2 -12.6 -12.0 6.8 -11.0 -12.4 -10.4 -10.8 +·01--12.9 -10.9 -14.0 -8.3 -10.1 Monthly DAY 10 12 14 15 16 17 18 19 20 22 25 56 58 30 = 13 21 23 24 27 28 6 31 S 9 00

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

12695 92981

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

1956-1977

STATION NAME

STATION 87601

12095 9/981

MC MURDO STATION

YEARS

MONTH

SUNCE

		DATE	1976	1976	1976	1976	1976	1957	1976	1958	1975	1958	1956	1957	1957	1959	1967*	1962	1962	1976	1965*	1958	1958	1976	*1161	1956	1963	1956	1956	1965	1965	1960		1976
EMP	EME	ွ	0.05-	1.19-	-41.1	-36.7	-35.6	-38.9	-39.4	-32.2	2.26-	6.66-	-36.7	-36.7	-38.3	-32.2	-33,3	-38.3	-37.8	-35.6	-36.1	-38.3	-35.6	-36.1	-34.4	-38.9	-35.6	-36.7	-37.8	0.04-	-38.9	-39.4		-41.1
MINIMUM TEMP	EXTREME	L ₀	040	245	245	*34	26.	*38	66.	97-	970	67-	46.	+6=	-31	92-	87-	160	*36	26-	-33	-37	*35	-33	06.	-38	*32	76.	96.	0	.38	-39		245
	GE	ပ	1.87-	-56.1	8.97-	0.72-	1.97-	-26.9	-27.0	-25.1	2.62-		-28.3	-2802	-27.9	-25.1	-53.7	-53.3	-27.4	-27.4	-28.4	-28,1	-27.0		-27.6	-27.6	-27.0	-27.0	-26.8	-27.6	2.82-	-58.7		-27.1
	AVERAGE	ч°	-18.6	-16.0	-16.2	-16.0	-14.9	-16.5	-16.6	-13.1	-13.4	-15.8	-18.9	-18.8	-17.5	-13.1	-10.0	-13.9	-17.4	-17.4	-19.1	-18.5	-17.3	-20.6	-17.7	-17.7	-16.6	-16.6	-16.3	-17.6	-18.7	-19.7		-16.7
		DATE	1962	1961	1971	1961	1961	1962	1961	1961	1961	1971*	1961	1966	1963	1966	1974*	1956	1956	1963	1957	1972	1972*	1951	1964	1960	1972	1972	1972	1972	1964	1972		1972
MP	EME	ပ	+.6-	-6.1	-5.6	-8.3	4.6-	6.8-	-7.2	4.6-	4.6-	-12.2	-111.7	-12.8	8.7.	6.8-	6.8-	8.1.	6.8-	-12.2	-12.2	6.8-	-11:1	-12.2	-10.6	4.6-	-8.3	-5.6	-5.0	4.4-	-10.6	4.6.		4.4-
MAXIMUM TEMP	EXTREME	٠ ا	15	12	22	1.7	15	10	19	15	15	10	11	6	18	16	16	18	16	01	10	16	12	10	13	15	1.7	22	2.3	24	.3	15		54
Σ	AGE	ပ	-19.2	-19.1		-19.9	-19.5	-16.3	-18.7	-16.9	-17.6	-19.6		-20.8	-19.0	-17.0	-17.2	-18.4	-19.0	-20.8	-21.1	-21.0	-19.6	-20.6	-19.7	-18.8	-18.9	-18.9	-18.9	-19.8	-21.3	-20.9		-19.3
	AVERAGE	¥ °	-2.5	-2.3	-3.1	-3.8	-3.1	-1.0	-1.7	1.6	4.0	-3.2	-4.7	-5.5	-2.2	1.4	1.0	1.1-	-2.2	-5.4	6.5-	-5.8	-3.3	0.5-	-3.5	-1.9	-2.0	-2.1		-3.6	-6.3	-5.6		-2.8
MP	3.	٥,	-23.7	-22.8	-23.1	-23.4	-22.8	-22.6	-22.8	-50.9	-21,3	-23.1	-24.3	-24.6	-23.2	-21.0	-20.4	-21.9	-23.2	-24.1	-24.7	-24.6	-23.5	-24.9	-23.7	-23.2	-22.9	-23.0	-22.9	-23.7	-24.7	-24.8		-23.2
MEAN TEMP	AVERAGE	٠ ٦	-10.6	-9.1	9.6-	-10.2	0.6-	1.8-	1.6.	-5.7	4.0-	-9.5	-11.8	-12.2	8.6-	-5.8	-4.7	20		-	2	-12.2	-10.3	-12,8	-10.6	e.6.	_	_	-	-10.6	-12.5	-12.7		8.6-
		DAY	1	2	es	4	2	9	1	88	6	-	11	12	13	14	15	16	17	18	19	20			-	-	25	26	-		-		31	Monthly

9111

*ALSO ON EARLIER YEARS

DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

MC MURDO STATION

STATION NAME

STATION 87601

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0

1956-1977

YEARS

777

MONTH

	MEAN LEMP	EMP		2	מושים ואוסואו בואו							
	AVERAGE	AGE	AVER	AVERAGE	EXTREME	EME		AVERAGE	AGE	EXTR	EXTREME	
DAY	u.	0,	L o	ပ	٠ ٣	၁့	DATE	L °	o°.	4 °	၁့	DATE
-	-11.9	-24.4	4.4-	-20.5	1.5	7.6-	1972	-19.4	-28.6	-34	-36.7	1956
2	-11.4	-24.1	-3.4	-19.7	11	E . 8 -	1965	-19.5	-28.6	-37	-38.3	6961
6	-11.5	-24.2	-4.2	-20.1	2.1	-6.1	1965	-18.7	-28.2	04-		1957
4	-11.0	-23.9	4	-20.1	21	-6.1	1965	-18.0	-27.8	-32	-35.6	1960
S	-8.7	-22.6	-2.1	-18.9	21	-6.1	1965	-15.4	-26,3	-35	-37.2	1958
9	-12.0	-24.4	-4.5	-20.3	13	-10.6	1965	-19.5	-28.6	040	-40.0	1960
1	-13.5	-25.3	-7.1	-21.7	1.5	+.6-	1970	-19.8	-28,8	***	-42.2	1960
00	-14.0	-25.6	0.9-	-21.1	13	-10.6	1965	-21.9	-29.9	-59	-50.6	1960
6	012.6	-24.8	0.9-	-21.1	1.5	***	1964	-19.1	-28.4	*24	-47.8	1960
10	-14.2	-25.7	-7.0	-21.7	1.5	4.6-	1964	-21.3	9.67-	06=	0.04-	1971*
11	-17.4	-27.4	-10.3	-23.5	0	-12.8	1965	-24.4	-31,3	940	-43.3	1971*
12	-16.8	-27.1	7.6-	-23.0	1	-13.9	1965	-24.1	-31.2	240	1.14-	161
13	-13.7	-25.4	-6.2	-21.2	11	-11.7	1975	-21.1	-29.5	-37	-38.3	1976
14	-15.0	-26.1	-8.4	-22.4	1.5	3	1975	-21.6	-29.8	643	-41.7	1958
15	-17.2	-27.3	6.6-	-23.3	10	-12.2	1975	-24.4	-31,3	-53	-47.2	1963
16	-18.1	-27.8	-10.5	-23.6	0	-14.4	1965	-25.7	1.26-	64.	-45.0	1963
17	-17.4	-27.4	-9.1	-22.8	æ	-13.3	1965	-25.8	1.26-	250	-41.1	1974
18	-15,3	-26.3	-8.3	-22.4	13	-10.6	1963	-22.3	-30.2	040	-40.0	1974
19	-16.6	-27.0	-8.5	-22.5	9	-14.4	1956	-24.8	-31.6	04-	0.04-	1974
20	-16.1	-26.7		-22.5	20	-6.7	1956	-23.7	-30.9	14.	9.04-	1961
21	-15.9	-26.6	-8.2	-22.3	54	4.4-	1956	-23.6	-30.9	640	-41.7	1961
22	-14.7	-25.9		-21.8	16	6.8-	1956	-22.2	-30,1	-37	-38.3	1967#
23	-17.0	-27.2	6	-22.9	=	-111.7	1956	-24.7	-31.5	*38	-38.9	*4961
24	-16.2	-26.8	7.6-	-23.0		-7.8	1966	-22.9	-30.5	66-	-39.4	1972
25	-15.9	-26.6	-8.1	-22.3	15	4.6-	1966*	-23.7	-30.9	14-	-40.6	1972
26	-15.4	-26,3	-7.8	-22.1	1.5	4.6-	1956	-22.9	-30,5	245	-41.1	1965
27	-16.5	-26.9	6.6-	-23.3	•	-12.8	1968	-23.0	-30.0	66-	-39.4	1972
28	-16.8	-27,1	-	-22.8	14	-10.0	1976	-24.5	-31.4	640	-45.8	1963
58	-16.8	-27.1	6.8-	-22.7	22	9.5-	1959	-24.7	-31.5	-45	-42.8	1965
30	-16.7	-27.1		-23.3	2.2	-5.6	1989	-23.5	-30.8	940	-43.3	1965
31	-16.9	-27.2	-6.7	-23.2	23	-5.0	1959	-24.0	-31.1	840	++++	1975
Manchin	2 11	1 76		23 0	3.6	7 7	1014	200	5 X C	7 5	7 90	VIV.

*ALSO ON EARLIER YEARS

DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

MC MURDO STATION

STATION 87601

STATION NAME

1956-1977

YEARS

MONTH

AUGUST

MEAN TEMP	TEMP	1								EINIF	1
		∢	VERAGE	EXTE	EXTREME		AVERAGE	AGE	EXT	EXTREME	
٠ ٣	၁့	9 F	၁ွ	9 E	၁ွ	DATE	٠ ۲	၁့	9 E	၁ွ	
-18.7	-28.2	-10.3	-23.5	1.5	4.6-	1976	-27.0	-35.8	960	-43.3	
-19.0	-28.3	-11.0	-23.9	12	-1101	1976	-27.1	8.26-	84.	****	
-18.6	-28.1	-10.5	-23.6	12	-111-1	1976	-26.6		-21	4.64.	1
-18.5	-28.1	-11.1	-23.9	10	-12.2	1961	-25.9	7.26-	-53	-48,3	1
-18.7	-28.2	-11.0	-23.9	9.	-7.8	1957	-26.4	-32.4	542	-42.8	1
-21.4	-29.7	-14.0	-25.6	6	-12.8	1961	-28.8	-33.E	140	-40.0	1
-23.8	-31.0	-16.4	-26.9	-	-17.2	1974	-31.2	-35,1	94.	-4303	1
-22.6	-30.3	-13.0	-25.0	00	-13.3	1957	-32.2	-35.7	-57	+ 64-	1
-18.2	-27.9	-10.4	-23.6	12	-11.1	1974	-26.0	-35.2	84.	****	1
-16.0	-26.7	-6.3	-22.4	0	-12.8	1974	-23.6	-30.9	14-	-40.6	1
-	-27.5	-8.9	-22.7	9	-14.4	1971	-26.0	-32.2	240	1014.	1
-	-27.8	-10.7	-23.7	80	-13.3	1972*	-25.6	-32.0	***	2.24-	1
-16.8	-27.1		-23.0	42	4.4-	1972	-24.1	-31.2	643	130	1
-17.8	-27.7	-11.0	-23.9	22	.5.6	1972	-24.7	-31.5	94.	-43.3	1
-16.9	-27.2		-22.9	15	4.6-	1972	-24.0	-31.4	848	-44.4	1
-17.5	-27.5	6.6-	-23.3	15	4.6-	1972	-25.0	-31.7	650	-45.0	
9.91-	-27.0	9.6-	-23.1	15	4.6-	1972	-23.6	-30.9	150	-43.9	
-17.7	-27.6	-1101	-23.9	12	-111-1	1961	-24.4	-31,3	16.	-40.6	
-18.3	-27.9	-10.3	-23.5	14	-10.0	1961	-26.3	-32.4	-55	-46.7	
-15.7	-26.5	-7.8	-22.1	12	-111-1	1974	-23.6	-30.9	-44	-43.9	
-16.0	-26.7	-7.2	-21.8	14	-10.0	1965	-24.8	-31.6	642	8.24-	
-16.8	-27.1	-9.6	-23.1	0	-12.8	1974	-23.9	-31.1	96-	-37.8	
-16.3	-26.8	6.8-	-22.7	6	-12.8	1961	-23.6	-30.9	04-	0.04-	
-18.6	-28:1	-11.1	-23.9	12	-11:1	1971	-26.1	-32,3	6 90	-41.0	1
-19.3	-28.5	-11.2	-24.0	10	-12.2	1965	-27.5	-33.1	848	++++	
-17.7	-27.6	-10.2	-23.4	12	-11:1	1965	-25.2	-31.8	24.	4.44-	
8.11.	-27.7	-10.2	-23.4	00	-13.3	1965*	-25.4	-31.9	5 40	-42.8	1
-17.2	-27.3	-8.4	-22.4	1.4	-10.0	1965	-25.9	-3205	6 9	1010-	1
-17.2	-27.3	-9.6	-23.1	9	-14.4	1965	-24.7	-31.5	***	-42.2	1
-17.B	-27.7	0.6-	-22.8	1.3	-8.3	1957	-26.6	-3200	26.	-46.7	1
0.41.	-25.6	8.C=	-21.0	15	4.6-	1972	-22.1	-30.1	EC-	-47.2	1
	0 80		1 10 10			2 10 10 10					1

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*ALSO ON EARLIER YEARS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

Tun-

MC MURDO STATION

STATION NAME

STATION 87601

1956-1977

YEARS

MINIMUM TEMP

MAXIMUM TEMP

MEAN TEMP

DAY

-10.7

1

-14.9 -14.6 -14.6

0

10 = 12 13 14 15

-14.2

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-10.3

-15.0

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SEPTEMBER

MONTH

		DATE	1968	1968	1975*	1957	1957	1968	1966*	1962	1974	1974	1962	1962	1962	1962	1970	1963	1974*	1962*	1968	1974	1968	1968	1968	1968	1968	1968	1968	
	EME	ွ	-43.9	-43.3	0.04-	-38.3	-40.0	9.04-	9.04-	0.04-	-38.9	-38.9	9.0%-	-41.1	0.04-	0.04-	9.04-	-39.4	-37.8	-38.3	-38.9	-41.1	0.04-	-40.0	0.04-	0.04-	-42.2	-38.3	0.04-	
	EXTREME	4 °	-41	940	04-	-37	04.	14.	140	04-	.38	•38	14.	24-	04=	04.	140	66.	96-	-37	-38	24=	04.	04-	04-	040	**	-37	04.	
	36	၁့	-30.0	-30.4	-30.6	-28.6	-28.6	-28.1	-28.1	-29.5	-30.0	-59.4	-29.8	-30.3	-29.9	-31,1	-31.0	-59.1	-29.4	-28.6	-30.0	-27.9	6.97-	-27.0	-27.9	-27.5	-27.0	-27.1	7.87-	
	AVERAGE	u.	-22.0	-22.7	-23.1	-19.5	-19.4	-18.0	-18.5	-21.1	-22.0	-20.9	-21.6	-22.6	-21.9	-23.9	.23.8	-21.5	-21.0	-19.5	-22.0	-18.2	-16.5	-16.6	-18.3	-17.5	-17.6	-10.1	-18.8	
		DATE	1961	1972	1972	1972	1972	1961	1956	1957	1956	1956	1956	1975	1972	1961	1961	*4961	1971	1957*	1957	1957	1971	1961*	1961	1971	1441	1971	1970	
	ME	ပ	-7.2	-6.7	4.4	.6.1	-5.6	8.7.	-11.7	-111.1	-8.3	-10.0	-10.6	.13.3	-10.0	-11.7	-	-12.2	-10.6	-	-10.0	-11:1	6.8.	4.6-	-10.0	-7.8	-7.2	-7.8	-11.7	
I I I I I I I I I I I I I I I I I I I	EXTREME	L °	61	20	24	21	22	18	11	12	17	1.4	13	8	7.4	11	11	10	13	12	14	12	91	1.5	7.4	1.8	19	18	11	
	GE	o°.	-21.2		-21.6		-18.4	-19.4	-21.2	-21.8	-22.1	-22.4	-22.0	-22.1	-22.4	-21.7	-22.3	-21.3	-20.8	-20.5	-19.7	-19.4	-18.9	-18.9	-19.3	-19.3	-19.3	-19.8	-20.5	,
	AVERAGE	40	-6.2	-5.6	-6.8	-3.9	-1.1	-2.9	-6.2	-7.2	-7.8	-8.3	-7.6	-7.7	-8.4	-7.1	-8.2	+9-	15.4	7.4-	-3.4	-3.0	-2.0	-2.0	-2.8	-2.8	-2.8	-3.6	-4.4	
IAIL	36	ى °	-25.6	-25.7	-26.1	-24.3	-23.8	-23.7	-24.6	-25.7	-26.1	-25.9	-25.9	-26.2	-26.2	-26.4	-26.7	-25.6	-25.1	-24.4	-24.8	-23.7	-22.9	-22.9	-23.7	-23.4	-23.4	-23.4	-24.2	
MEAN LEWIS	AVERAGE		4.1	4.2	5.0	1.7	6.0	0.7	2.3	4.2	6.4	9.4	9.4	5.1	5.5	5.5	0.9	0.4	3.2	2.0	2.7	9.0	6.6	9.3	9.0	0.2	0.2	0.2	1.6	

-14.0

16

17 18 19 20 21 22 23 24

-13,2

-15.5 -16.0 10.6

-12,0

-10.6 -10.2

ALSO ON EARLIER YEARS

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1976

-35.0

-31 ...

-27.4 -27.

-20.3

-17.8 -17.4

1956 1956 1956

-111.1 6.8--6.3

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-19.8

-3.6

-23.6

-25.0

-13.0

-23.7

-10.6

-10.2

25

56 27 28 53 30

-5.7

-19.7

-3.5

1961

-36.1

1968

-43.9

-42

-28.9

-20.1

1972

4.4.

-20.0

-5.1

-24.8

-12.6

Monthly

31

DAILY AVERAGE/EXTREME TEMPERATURES

MC MURDO STATION 87601

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION NAME

STATION

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1956-1977

YEARS

MONTH OCTUBER

_	MEAN LEMP	TEMP		Σ	MAXIMUM LEMP	EMP				MINIMOM LEMP	EMP	
_	AVERAGE	AGE	AVER	ERAGE	EXTREME	EME		AVERAG	AGE	EXT	EXTREME	
-	u.	٥,	ц. °	°,	L _o	ပ	DATE	ч	၁့	9 e	ွ	DATE
-	-14.0	-25.6	-6.6	-21.4	==	-11.7	1975*	-21.4	-59.7	4 30	-38.9	1976#
-	-13.9	-25.5	-6.0	-21.1	12	-111.1	1966	-21.5	-59.1	76.	-36.7	1976
-	-11.4	-24.1	-4.3		10	-12.2	1966	-18.4	-28,0	-31	5.	1968
-	8.01-	-23.8	-2.0	-18.9	12	-111.1	1963	-19.6	-28.7	96-	-37.8	1961
-	4.8.	-22.4	-1.4	-18.6	16	-7.2	1974	-15.5	-50.4	96-	-37.8	1961
-	-7.9	-22.2	6.0-	-18.3	18	-7.8	1963	-14.9	1.92-	-33		1961
-	-6.1	-21.2	1.3	-17.1	20	-6.7	1970	-13.5	-25.3	*36	-37.8	1975
-	-7.0	-21.7	1.2	-17.1	20	-6.7	1972	-15.3	-26,3	-39	-39.4	1976
-	62.6	-21.1	2.7	-16.3	21	1.9-	1972	-14.6	-25.9	-30	-34.4	1976
-	-3.0	-19.4	4.4	-15.3	17	-8.3	1970*	-10.5	-23.6		-35.0	1959
-	24.3	-20.3	2.3	-16.5	89	.7.8	1970	-11.4	1.42-	*24	-36.7	1976
-	24.5	-20.3	2.0	-16.7	15	4.6-	1958	-111.1	-23.9	000	-34.4	1959
-	-3.5	-19.7	3.1	-16.1	1.5	7.6.	1968	-10.2	-63.4	31	-35.0	1976
-	-3.7	-19.8	3.1	-16.1	16	6.8.	1968	-10.6	-23.7	05=	0.04-	1976
+	-5.7	-20.9	0.8	-17.3	1.1	-8.3	1965	-12.3	-24.6	.3	-35.0	1976
-	.5.a	-21.0	0.0	-17.8	1.7	-8.3	1965	-11.6	2047-	870	-33,3	1975
-	-5.9	-21.1	0.3	-17.6	.5	+.6-	1965	-12.3	9.42-	97=	-32.2	7961
-	9.4.	-20.3	2.1	-16.6		-10.6	1972	+111-	-24.1	67.	-33.9	1962
	0.5.	-20.6	1,2	-17.1	12	-111.1	1972*	-11.4	-24.1	67.	-31.7	1976
-	-3.0	-19.4	4.0	-15.6	15	4.6.	1996*	-10.2	4.62-	-30	-34.4	1976
-	-1.3	-18.8	3.9	-13.6	15	7.6=	1972	-7.5	6.12-	270		7967
-	-1.2	-18.4	5.0	-15.0	1.8	-7.8	1960	-7.4	-21.9	17.	-59.4	1976
-	-1.4	-18.6	4.4	-15.3	2	-5.0	1965	-7.4	-21.9	-22	-30.0	1969
-	-1.0	-18.3	5.1	-14.9	22	45.6	1965	-7.3	-21.8	07-	6.82-	1963
-	-0.5	-17.9	6.3	-14.3	6	-7.2	1974*	6.9-	-21.6	22-	-30.0	1958
+	0.0	-17.8	6.8	-14.0	20	1.00	1971	-7.0	-21.7	27.	-30.0	1959
-	2,3	-16.5	9.5	-12.5	2.1	1.0.	1974	-4.7	-50.4		-27.8	1959
-	4.1	-15.5	10.3	-12.1	22	-5.6	1969	6-1-	-13.8	12-	-29.4	1959
1	4.0	-15.6	10.3	-12.1	24	4.4.	1969	-2.1	-18.9	-63	-30.6	1959
-	5.4	-14.8	11.0	-11.7	18	.7.8	1974#	0.0	-17.8	51.	-26,1	1959
-	5.3	-14.8	11.0	-11.7	24	4.4-	1960	-0.3	6.41-	67-	-28.3	1959
Monthly	€3.8	6.61-	2.9	-16.2	24	404=	1969*	-10.7	-23.7	04-	0.04-	1976

*ALSO ON EARLIER YEARS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

1956-1977

STATION NAME

STATION 87601

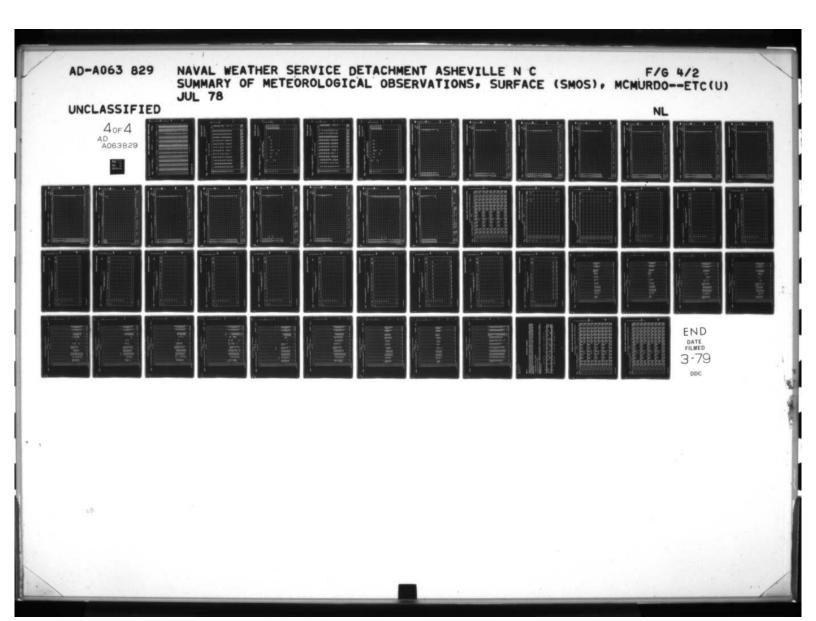
MC MURDO STATION

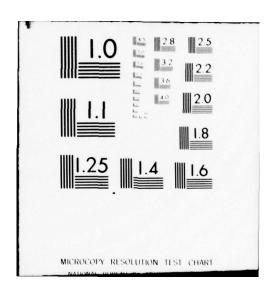
MONTH NOVEMBER

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		DATE	1959	1975	1968	1968	1975	1975	1967	1967	1975	1976	1976	1959	1960	1960	1965	1960	1958	1963	1970	1972	1972	1972*	1962	1962	1975	1976	1961	1969	1976	1958		1959
MP	ME		-	-	2.		-21.7	-	8		-		9.		0.	-21.1	1.			9.	9.	_		-15.0		2	1		-13.9			-12.2	\dashv	-28.3
MINIMUM TEMP	EXTREME	₽°	67:	6.	*	27:		-15	6.	4.	5=	e-2			**	9.	9.	9.	2	4	*	*	~	3	2	3	2	•	•	æ	4	10		61-
Σ	E	o°.	13.4	-16.9	-16.4	-16.6	-16.6	-16,3	-16.0	-15.1	-14,5	8,610	-13.2	-13.4	-12.9	-12,8	8.21-	1,61-	-11,8	-10.6	-1003	-11,2	8.01-	-10.3	-10.3	-10.5	0.01-	0.6-	4.8.	-8 · 3	=1.3	9.1-		-12.5
	AVERAGE	⊌ °	-1.2	9.	-	2	-	-	3.5	-	5.0	7.1	8.2	20	-	-	-		10.8	12.9	12.4	3	12.5	13.5	13.5	13.1	14.0	15.6	16.8	17.1	18.9	18.3		0.0
		DATE	1960	1960	1960	1960	1968	1968	1963	1961	1976	1976	1972	1963	1971	1957	1961	1957	1974	1956	1974	1956	1974#	1971	1958	1971	1971	1971	1971	1974#	1972	1987		1971*
Ь	AE	o°.	-	-2.2	-	-	2	4.4	-3.9	-3.3	-1.1	-1.1	~	-1.1	-1.7	~	-2.2	_	-1.1	9.0	7.	-1.	9.	0.0	0.0	9.0	9.0	200	1.7	0.0	1.7	2.8		2.8
MAXIMUM TEMP	EXTREME	L 0	53	28	56	58	26	54	25	56	30	30	28	30	58	28	28	30	30	23	30	34	31	32	32	33	33	37	35	32	35	37		37
MA	3E	o°.	-11.4	-10.8	-10.1	-10.0	6.8-	-10.2	-9.5	-9.0	0.8-	•7.0	6.9-	8.4.	9.9-	8.9-	6.9-	-6.5	-5.5	-5.1	15.4	15.4	-8.1	-5.0	4.4.	-4.2	0.4-	-3.6	-3.5	-3.5	-2.4	-2.8		9.9-
	AVERAGE	u.		1	80	14.0	0		_		17.6	18.4		17.9	20.1	19.8	19.6	20.3	22,1	22.8	22.3	22.2	22.8		24.0							27.0		20.2
14	in the	٥٥	-15.0		-13.2	-13.3	-12.7	-13.3	-12.8	-12.0	-11.2		-10.1	-10.6	8.6.	8.6.	8.6-	8.6=	6.8.	8.4.	-8.1	-8.3	6.4-	-7.6	*7.3	-7.3	-7.0	.6.3	6.0	-5.7	8.4-	-5.2		2.6-
MEAN TEMP	AVERAGE	40	5.0	7.1	8.2	0	9.1	8.1	-	_	-	L	_	_	1	-	-	-	_	_		17.0	17.7	18.3	18.8	18.8	19.4	20.7	21.5	21.7	3			14.9
	L	DAY	1	2	3	4	2	9	7	000	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly

*ALSO ON EARLIER YEARS





DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

MC MURDO STATION

STATION NAME

STATION 87601

1956-1977

DECEMBER

MONTH

YEARS

		TE	8	8		-	0	0	*0	8		8	8	0	0	2	2	2	9	9	9	5	2	5	8	9	2	2	0	2	0	3	-	0
		DATE	1958	195	1958	195	196	1960	1960	195	195	195	1956	1960	196	196	1975	1962	197	197	197	1975	197	197	961	197	1975	196	197	1962	197	196	1961	1960
EMP	EXTREME	၁ွ	-12.8	-12.8			-14.4	-16.7	-12.8	-12.8	-12.2	-12.2	-12.2	-10.6	-11:-	-10.0	-10.6	-8.9	+6-	-11.7	-11.7	-8.9	+06-	-10.0	4.6-	-8.9	-8.3	-8.9		-10.0	6.8-	8.7.	8.4.	-16.7
MINIMUM TEMP	EXTE	₽°	6	6	6	•	9	2	6	0	01	10	01	13	=	*	13	16	1.5	=	11	91	1.5	14	1.5	91	11	97	91	14	91	18	18	~
Σ	GE	၁	60/0	-8.3	66/-	1.8.	6010	201-	201-	9.9-	2008	-0.0	2.9-	-0.1	200-	-2.6	-3.0	0.6=	2.6-	8.6.	-5.6	-4.1	-5.3	-5,1	1.5-	205-	106-	100-	6.90	2.4-	*3,6	8.6-	-3.6	-5.8
	AVERAGE	H°	17.7	17.1	17.8	17.4	17.8	19.0	19.0	20.2	19.8	20.4	50.0	19.9	19.7	22.0	22.0	23.0	22.6	21.5	21.9	23.5	22.4	22.8	22.8	22.0	22.8	24.7	24.3	24.4	25.6	25.1	25.0	21.5
		DATE	1970	1970#	1969#	1956	1956	1971*	1959	1956	19761	1967	1969	1957	1972	1972	1970*	1961	1956	1969*	1957	1972*	1972*	1965	1966	1972*	1972	1966	1971	1974#	1963	1975	1976	1975*
MP	ME	ى °	2.2		1.7	2.2	1.7		2.2	1.7	1.7	3.3	3.3	3.9	3.3		==	8.8	4.4	3.9	3.3	2.8	3.9	4.4	4.4	3.3	6.0	3.9	2.0	4.4	5.6		5.0	5.6
MAXIMUM TEMP	EXTREME	LL o	36	35	35	36	35	35	36	35	35	38	38	39	38	37	34	37	40	39	38	37	36	0,4	40	38	38	36	1,	04	24	24	1,	77
W	GE	o°.	-2.9	-3.4	200	-2.7	2.00	-2.1	-1.6	-2.0	-1.8	-1.7	-1.0	-1.9	+1.4	-1.3	6.0-	-1.0	8.0-	-0.0	-0.7	-0-1				0			1.0				1.0	-1.0
	AVERAGE	L °	26.7	25.9	26.4	27.1	26.8	28.3	29.5	28.4	28.8	29.0	29.5	28.6	29.4	29.6	30.3	30.2	30.6	31.0	30.7	31.8	31.7	32.3	31.7	30.5	31.6	32.0	33.8	32.6	33.4	34.0	33.8	30.2
AP.		٥,	-5.4	.5.8	-5.5	+9.6-	+9.4	9.4-	4.4-	6.4.	6.4-	-4.1	-3.8	-4.3	-4.1	49.6	*3.2	-3.0	-3.0	-3.2	*3.2	-2.4	-2.7	*2.4	-2.6	.3.0	-2.7	-2.0	41.6	-1.9	4.1.	-1.3	-1.3	+3.4
MEAN TEMP	AVERAGE	u,	22.2	21.5	22.1	22.3	22.3	23.7	24.1	24.3	24.3	24.7	25.1	24.3	24.6	25.8	26.2	26.6	26.6	26.3	26.3	27.6	27.1	27.6	27.3	26.6	27.2	28.4	29.1	28.5	29.5	29.6	29.7	25.9
		DAY	1	2	r	4	2	9	7	00	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly

*ALSO ON EARLIER YEARS

MAXIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

MC MURDO STATION, ANTARCTICA

87601 STATION

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0

56-77

YEARS

WHOLE DEGREES FAHRENHEIT

MONTHS		04	39	36	37	74	36	45		45	04	7				:	04		4.1		*				40.1	2.758	7524
DEC.	04	36	33	37	37	36	33	+2	36	04	04	30	40	39	04	-1+	58	+3	0.	42	14				38.9	2.700	169
NON	34	37	32	31	30	30	16	3	30	53	82	53	82	50	31	37	35	35	35	31	30				31.3	2.572	029
OCT.	61	9.	81		12	13	5	2		23	1.0	20	81	54	02	20	12	25	12	2	=				18.9	3.684	029
SEP.	1.1	13	•	•	*		=	1	==	*	6	61		07	12	61	54	2	•	2	01				12.3	5.162	999
AUG.	•	19	-1	2	•	:	-	01		*		17		•	9	12	54	11	12	•	13				10.8	6.502	950
JUL.	54	0	•	23		~	0	13	13	21	18	12		-	13	13	13	20	-	15	1.1				12.3	7.841	620
NOT		13		12	10		10	18	13	0	10	21			13	22	54	13	10		•				14.0	6.126	540
MAY	61	=	80	20	0	11	=	00	75	91	0.	10		14	91	27	8		42		9				14.6	5.585	558
APR.	1.8	12	13	22	9	18	18	23	02	19	7.	9		8	13	54	02	18	07	20	01				17.0	4.679	000
MAR.		19	52	50	1.1	23	=	13	9	1.5	54	24	54	54		54	28	11	21	23	42				20.8	4.622	589
		32	39	30	62	35	30	33	31	33	32	35	28	87	34	53	34	22	30	34	34				31.6	3.589	565
JAN.		•	38	39	33	42	36	35	34	24	38	7	39	•	**	*	00	;	4.4	+1	14	•			39.8	3.375	651
YEAR	96	22	58	66	09	61	29	63	70	69	90	67	99	69	10	17	72	73	74	75	76	11			MEAN	S. D.	TOTAL OBS.

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MAXIMUM TEMPERATURE

FROM DAILY OBSERVATIONS

MC MURDO STATION, ANTARCTICA

87601 STATION

36-77

MADLE DEGREES FAHRENHEIT

JAN. FEB. M	26	*9	39	69		30	73	75	MEAN	S. D.	
APR.			20 0	2							
MAY			5 6	43			30				
JON.			0 0	2	11			29.2			The second secon
JUL.			0.5	90							The second second second
AUG.			4	17							
SEP.			5.	04							
OCT.		87 08									
NON											The second secon
DEC.											Contract of the last of the la
MONTHS	MAX TEMP	MAX TEMP	MAX TEMP	MAX TEMP		-	MAX TEMP DAYS	MAX TEMP DAYS			The second secon

NAVWEASERVCOM

0

MINIMUM TEMPERATURE

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36-77 MC MURDO STATION, ANTARCTICA

WHOLE DEGREES FAHRENHEIT

WEAR	JAN.	3	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NON	DEC.	MONTHS
36				39-	32-	38-	38-	57-	-26	30-	30	13	
57	9	-	19-	33-	36-	38-	-04	+2-	104	28-		-	42.
36	15	Santa .	-12	- 77	37-	37-	40-	48-	+1+	-97	30	6	48
99	13	2	15-	28-	37-	29-	40-	52-	33-	32-	19-	=	52.
00	*	-	30-	-62	-67	39-	-65	42-	-14	17-	9	2	59.
:	13	1	25-	24-	25-	30-	43-	+0+	33-	37-	-	12	46.
29	07		-82	30-	30-	37-	39-	-24	-24	320	3.	6.	20
63	12	-	19-	34-	43-	33+	53-	55-	39-	23-		*1	95-
70	60		-92	-67	-5.	30-	-62	+0+	-26	-92	-	15	64
69	14	2	-94	-92	48-	104	46-	45-	-62	50-		15	48
99	==	-		-87	+24	30-	30-	48-		-27	6	*	48
67	9	•	-07	35-	41-	35-	+1-	34-	147	37-	-	13	1
99	=	•	16-							38-	12-	12	
69	16	*	15-	34-	37-		-94		35-	50-		13	
10	16	0		-57	33-	26-	30-		-16	13-	3.	91	
=	16	2-	26-	23-	33-	34.	461	+1-	35-	28-	-2	13	•
72	80	•	-27	33-	37-	27-	-14	38-	-62	30-	•	91	-14
73	14	~	797	-92		37-	37-	34	36-	25-	0	-	
14	2		-92	-97	37-	320	-24	38-	-24	30-	130	91	-24
73	•	1	54-	28-			48-	57-	0	36-	15-	=	
16	10		-91	32-	-94	42-	37-	37-	36-	-04		=	-04
=	10												
MEAN	11.8	-6.	11			34.10	41.9-	44.3-	36.4-	-8.82	3.4-	12.0	-0-49
S. D.	3.807	9.139				4.702	16001	1		0.810	0.029	3.471	5.278
TOTAL OBS.	159	565		000	558		620		900	169	019	159	727

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87601 STATION

MINIMUM TEMPERATURE

MC MURDO STATIONS ANTARCTICA

87601 STATION

\$6-77

YEARS

WHOLE DEGREES FAHRENHEIT

VEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	1=1
96			19-										-
89				31-	200	32-	30	23-	26				MIN TEMP
60						26-							MIN TEMP
0,			30										-
73					30-								MIN TEND
25						29-							MIN TEMP DAYS
MEAN													
S. D.													
TOTAL OBS.													

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PAGE 1

MONTH

73-77

MC MURDO STATION. ANTARCTICA

87601 STATION

15648-5605 81541

TOTAL
D.B./W.B. Dry Bulb Wet Bulb Dew Point 744.0 Total 2 93 F 1240 Mean No. of Hours with Temperature 3 1.2 3.4 5.6 7.8 9.10 11.12 13.14 15.16 17.18 19.20 21.22 23.24 25.26 27.28 29.30 597.0 ≥ 32 F ≥ 0 F WET BULB TEMPERATURE DEPRESSION (F) 1240 No. Obs. 5,889 8 27.8 34450 100001 • 46/ 45 28/ 29 28/ 27 26/ 29 22/ 29 20/ 19 18/ 17 14/ 13 16/ 15 Dry Bulb Wet Bulb Element (X) Dew Point Rel. Hum. Temp. TOTAL 198 200

0

8

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	TOTAL									with Temperatu	280 F	+
		. 28 29 . 30 = 31								Mean No. of Hours with Temperature	267 F 273 F	+
YEARS		. 24 25 . 26 27									≥ 32 F	671.1
		. 20 21 . 22 23									10F	+
	WET BULB TEMPERATURE DEPRESSION (F)	13 - 14 15 - 16 17 - 18 19 - 20 21								2	100.00	760
	BULB TEMPERAT									36		7.592
VIII	WET	9 - 10 11 - 12									-	4.61
STATION MARE		5.6 7.8								À	Y	12460
		2 3.4								2,2		248032

U SELE . TEOS MEN

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MAR

YEARS

MC MURDO STATION, ANTARCTICA

STATION

10 0 0

PSYCHROMETRIC SUMMA JAN 68

	- 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B./W.B. Dry Bulb		3		71	29	82	06		57	35	23	12						σ _x No. Obs. Mean No. of Hours with Temperature	± 0 F ± 32 F ± 67 F ± 73 F ± 90 F ± 93	
WET BULB	7 . 8 9 . 10 11 . 12 1																		ZX	-	
Temp.	(F) 0 1.2 3.4 5.6			18/ 17	1		1	0/- 1	2/- 3	!	6 - /8	-10/-11	4/-15	6/-17	-18/-19	-22/-23	67-53	TOTAL	Element (X) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		

555 PSYCHROMETRIC SUMMA JAN 68

100 1																				HOURS (LS.T.)	(LS.T.)
0 1.2 3.4 5.6 7.8 9.10 11.12 13.44 15.16 17.18 19.20 21.22 23.24 2	Temp.							VET BUL	B TEMPER.	ATURE DE	PRESSION	(F)					1	TOTAL		1 1	
2	(£)	0	. 2	7	9.5	8		1 - 12	13 - 14 1	5 - 16 17	. 18 19 .	20 21 - 22	23 - 24	25 - 26	27 . 28	29 - 30		D.B./W.B.	Dry Bulb	-	Dew Poi
2x2																			~ 4		
2x²	-																		5		
12 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	-		+	1	1	1	1			-	-	-							9		
16 16 18 18 18 18 18 18 18 18 18 18 18 18 18																			75		
21 16 16 17 18 18 19 19 10 10 10 10 10 10 10 10 10 10				1								-							18		
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2x ²																			18		
2x²			1	+	1	1	1												16		
2x ² 2x x x x x x x x x x x x x x x x x x																			7 6		
2x2 2x3 X 0x No. Ob. 20 F 232 F 280 F 283	12			1						-	-								36		
32 44 41 41 41 41 41 51 51 51 51 51 51 51 51 51 5																			64	_	
2x2	0/-11																		32		
28	2/-13		1	1		1	1												•		1
2 5 5 7 720.0	1-13																		36		
25 5 5 7 1 1 1 1 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	8/-19										-								4.1		
2x	0/-21																		15		-
2χ² Σχ	2/-23																		.		
2χ² Σχ² X σχ No. Obs. Amean No. of Hours with Temperature 204436 7.1 9.204 479 569.7 720.0	6/-27		1	1		1	T														
1(X) Σ_{X^2} Σ_{X} X X X No. Obs. Mean No. of Hours with Temperature outs. See 204 479 569.7 720.0	TAL																		479		
Σχ² Σχ																					
Σχ² Σχ																					
Σχ² Σχ																					
Σχ² Σχ																					
54436 3386- 7.1- 9.204 479 569.7 720.0	ement (X)		ZX2			Z×	-	I×	σ×	-	to. Obs.	1			Mean	No. of	Hours wi	th Tempera	oture		
64436 3386- 7.1- 9.204 479 569.7 720.0	el. Hum.											102	\vdash	32 F	2 67		≥73 F	2 80 F			Total
	Dry Bulb		99	436		3386		-1.		*	479	569		20.0							720.0
	Wet Bulb																				

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MAY

YEARS

MC MURDO STATIONS ANTARCTICA

87601 STATION

ISEAR. 7605 MIN

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PSYCHROMETRIC SUMMA JAN 68

5 PSYCHROMETRIC SUMMA JAN 68

10																				
0 1 1 2 3 - 4 5 - 6 7 - 8 9 - 10 11 12 13 - 4 1 15 - 16 17 - 18 19 - 20 21 - 22 12 - 24 12 - 26 17 - 28 19 - 30 23 1 24 24 24 24 24 24 24																			HOURS	2
1	Temp.	-	6	-	-		WET BUL	13 - 14 1	5 - 16 17	FPRESSION	20 21 .	22 23 .	24 25 . 2	6 27 . 28	1 29 - 30		D.B./W.B.	Dry Bulb	Wet Bulb	å
100 177 4831 - 10.1-11.250 477 60.0-6 770.0	-			+	-							-						76		
111 12 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18			-										-					22		
10 10 10 10 10 10 10 10	1-											-						==		
14 25 26 27 28 28 29 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20			-						1	1		-						12		
29 29 29 29 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20																		*:		
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25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20																		29		
25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20																		25		
25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28		+	+	1				1	1	+	1	-	-	+	-			47		1
25 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20	- 18/-																	32		
25 25 27 27 28 29 20 20 20 20 20 20 20 20 20 20	-12/-13		-	1	-					-		-	-					36		L
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$																		59		
20 10 10 2X ²	-16/-17																	25		
Σχ² Σχ	-18/-19		-							1		-	-					31		1
14 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	-20/-21																	20		
10 10 1 10 1 - 11 250 477 600 6 720 0 10 10 10 10 10 10 10 10 10 10 10 10	-24/-25		-		-													7.		
2x ² 2x 7 0x No. Ob. 201 230	-26/-27																	6		
Σχ ² Σχ ² Σχ ³ Σχ ³ Σχ ⁴ Σχ ³ Σχ ⁴ Σχ ⁵ Σχ ⁷ Σχ ⁷ Δο, Ob., so F s 22 F s 27 F s 29	-28/-29																	10		
Σχ ² Σχ	-30/-31									1	-	+	-					2		
Σχ² Σχ² Χ Νο. Obs. A77 So σ κ No. Obs. 20 F 232 F 267 F 273 F 293	-32/-33																	•		
2x2 Σx2 Σx	-34/-35		+	-	1				-	-	+	+	-					0 5		1
Σχ ² Σχ	-36/-37																	9 10		
Σχ ² Σχ	-60/-61 TUTAL																1	477		
2χ ² Σχ																				
109177 4831-10-1-11-250 477 600-8 720-0	Element (X)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-	-	N X	_	ı×	, x	-	6. Obs.	+	-		Mear	No. of	Hours w	th Tempere	ature		
109177 4831- 10.1-11.250 477 600.8 720.0	Ref. Hum.			1	4	+			-			OF	≥ 32 F	192	4.	≥73 F	≥80 F	1	-	Tota
	Dry Bulb		10917	4	483		0.1-	11.25	0	477	-	-	720.							720
	Wet Bulb					+	4				+	-		-	-		-	-	-	

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15648-7605 85M

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MC MURDO STATIONS ANTARCTICA

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(6)	0 1.2	3 - 4	. 5	9	7 . 8	9 - 16	0	- 12	13 - 1	4 15	- 16	17 - 1	8 19	- 20	21 - 2	2 23	- 24	9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 .	6 27	28 2	29 - 30	231	D.B./W.B.	W.B. D	Dry Bulb	Wet Bulb Dew Poi	4
30/ 29																									1		R. C.
							_			-						-			1	1				+	1		- 1
19/ 15																				-					-		
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12/ 11																			\						*		
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-																									1.5		
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- 2/- 3																				-					200		
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200	-	-	+	+			+	1	1	-	1		+		-	-			1	1	-	-	-	+	3		1
•																									75		
-18/-19			1	+	1		-			1	1		1	1		-	1		1	1		1	-	-	40		1
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-22/-23			-	1	1		-			-			1			+	1		1	1			-	-	26		
-24/-25																-									35		
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-28/-29							_																		13		
-30/-31																									1		
-32/-33		1																							30		
-34/-35																									8		
-36/-37																									2		
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545/-43																									n		- 1
54-/44-													-												7		
-46/-47			_				_			-		-	_			_			4						3		
(Element (X)	Σ_{X^2}			M	Σ×		×		σ×	×		No. Obs.	Sbs.						2	ean N	to. of	Hours	Mean No. of Hours with Temperature	peratur	•		
Ref. Hum.															= 0 F		VI	≤ 32 F		₹ 67 F	-	≥73 F		≥80 F	≥93 F		Total
Dry Bulb																											
Wet Bulb			-			-								-					_		-						

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87601 STATION

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MC MURDO STATIONS ANTARCTICA

12648-7605 8454

YEARS

TOTAL	TOTAL	WET BULB TEMPERATURE DEPRESSION (F)
HOURS (L.S.T.)	The second secon	
7 2004		

PSYCHROMETRIC SUMMA JAN 68

-48/-49 -54/-55 -60/-61 TDTAL	1014. 1014.	10/-49 10/-45 10	Temp. (F)	0	1.2	3.4	5.6	7.8	0	10 11	T BULB	WET BULB TEMPERATURE DEPRESSION (F)	ATURE 1	7 - 18	19 - 20	0 21 - 2	2 23 -	- 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30	16 27 .	28 29		182	TOTAL D.B./W.B		Dry Bulb	TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Point
- N	### Part Par	TOTAL TOTAL	-48/-49																							1
	Element (X)	Element (3)	TAL																					-	53	1 535
	Element (X) \(\Sigma \cdot \times \) \(\Sigma \cdot \times \) \(\Sigma \cdot \times \cdot \times \) \(\Sigma \cdot \times \cdot \times \cdot \times \cdot \times \cdot \times \cdot \times \) \(\Sigma \cdot \times	Element (X) 2x² 2x X 0x No. Ob. Risk Hon. Dry Bulb. West Bulb.								-		+														
	Element (X)	Element (X)								+	1								-							
	Element (X)	Etement (X)																								
	Element (X)	Element (X)																								
	Element (X)	Element (X) Σ_{K}^{2} Σ_{X} X σ_{X} No. Obs. Rel. Hum. Dry Bulb 187655 7609- 14-2-12-196 535 666-1 744-0																								
	Element (X) Σ_{X}^{2} Σ_{X} X G_{X} No. Ob. Σ_{X}^{2} Σ_{X}	Element (X) Σ_{X^2} Σ_{X} X σ_{X} No. Obs. Red. Hom. Dry Bulb 187655 7609— 14.2—12.196 535 666.1 744.0																								
	Element (X)	Element (X) $\Sigma \chi^2$ $\Sigma \chi$ $X \qquad \sigma_X$ No. Obs. Red. Hum. Dry Bulb 187655 7609— 14.2—12.196 535 606.1 744.0																								
	Element (X) \(\Sigma \times \t	Element (X) \$\sum_{\infty} \times_{\infty}^2 \times_{\infty} \																								
	Element (X) Σχ² Σχ	Element (X)																								
	Element (X) Σχ² Σχ	Element (X) Σ_{X^2} Σ_{X} X T T No. Obs. Σ_{X^2} Σ_{X																								
	Element (X) Σ_{X^2} Σ_{X} X σ_{X} No. Obs. 20 F 32 F Dry Bulb 187655 7609- 14.2-12.196 535 666.1 744.0	Element (X)																								
	Element (X) \(\int \tilde{\infty}\) \(\int \tilde{\int}\) \(\int \tilde{\infty}\) \(\int \tint{\infty}\) \(\int \tint{\int}\) \(\int \tint{\infty}\) \	Element (X)								+																+
	Element (X) Σχ ² Σχ	Element (X) Σχ ² Σχ																								
	Rel. Hum. Dry Bulb 187655 7609- 14.2-12.196 535 666.1 744.0	Rel. Hum. Dry Bulb West Bulb West Bulb	_		2x2			Σ×		×		σ×	-	No. O	35				*	on No.	of Ho	rs with	Temper	of Cr		
Element (X)	Dry Bulb 187655 7609- 14.2-12.196 535 666.1	Dry Bulb 187655 7609- 14.2-12.196 535 666.1														0 \$	_	± 32 F	H	67 F	27	3.5	≥ 80 F	H	4	≥93 F
Element (X)		_			18	7655		76	-60	14.	2-1	2.19	•	2	35	99		744.	0					-		

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YEARS

73-76

MC MURDO STATIONS ANTARCTICA

15E28-7005 HTH

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5 PSYCHROMETRIC SUMMA JAN 68

	1.2 3.4 5	5.6 7.8 9	. 10 11 - 12	13 - 14 15 - 1	WEI BUILD 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30	20 21 - 22 23	24 25 . 26 2	7 . 28 29 .	131	D.B./W.B.	Dry Bulb	Wet Bulb Dew Point
6.54												
											6	
1									-		22	
		+	1	-		1		+	-		16	1
											200	
											21	
											39	
											33	
1			1	-			1	1	-		36	1
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											170	
	Σχ²	2x	×	Ø,x	No. Obs.	1		Mean No. of Hours with	f Hours wit	h Temperature	ore	1
1						10 F	± 32 F	₹ 67 ₽	≥73 F	2 80 F	2 93 F	Total
	264001	11793-	15.3-10.413	0.413	77.0	658.3	719.1					720.0

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MC MURDO STATIONS ANTARCTICA

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5 PSYCHROMETRIC SUMMA JAN 68

1	ulb Wet Bulb Dew Po	(4	NO O	500	51	39	41	67	55	61	2 4	101	27	43	55	36	0 4	27	94	59	20	0.4	~	3	656	-	≥93 F	-
	Dry Bulb																								0	- Properties	ł	+
TOTAL	D.B./W.B.																									Mean No. of Hours with Temperature	280 F	
1	18=															1										w sino	273 F	
	. 30				T						T			1		T		T			1			1		- F		1
	28 29			+-	+	-		-	-	_	+		-	+	_	+		-	-	-	+		-	+	-	_ 2	≥ 67 F	
	. 1																									¥	~	
	25 - 26 27				1						T					1											4	-
	. 24 25		-	-	+	-		+	-		+		-	-		+	-	+	-		+		-	1	+	-	₹ 32 F	1
	2										1																-	1
	1 - 22															1											≥ 0 F	-
E	20 2			+	+			+		_	+		1			+	_	T			1		1	1		十	+	+
STON	- 6		_	-	1	-		1	-		+		_	-		+		-		_	1		_	-	-	;		1
JEPRE	7 . 1																									Š		1
rure (- 16				T			T			1					1		T					T				1	1
PERA	4 15		-	-	+	-		+	-		+		-	-		+		+		-	-		+	-		-		
B TEN	13 -																											
WET BULB TEMPERATURE DEPRESSION (F)	- 12																									D		
₹	9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21		-	+	+			+			+		-			+		-					+					1
	\vdash		_	-	-			+			+		1	_		4		-		_	_		-		_	_		
	7 . 8																									3		
	5.6				1						1					1												1
	3.4							T			1					1		T									T	1
	2	_	+	+	+			+			+		-			+		\dagger					+					
	-	_	-	-	+			+	_		+		-	_		+		+	_	-			+	_		2.23		
	0								*1																			
ó		65	6:	12	11	6			-				6 .	-11		7	-17	-21	-22/-23	-24/-25	-27	1-29	-33	3	_	(8)	E.	
Tem	(199	20/	191	3	10/	8	6 3	2	10	17	3	-	10/	-12/	•	191-	20	5	4	19	182-	32/	8	TOTAL		Rel. Hum.	Nei: 110111

E.

YEARS

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					WET B	ULB TEMPERA	WET BULB TEMPERATURE DEPRESSION (F)	F)			1			TOTAL	
0	1.2	3.4 5	9.5	7 . 8 9	1 - 11 01 -	2 13 - 14 15	1 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30	0 21 - 22 23	. 24 25 . 26	27 . 28 29 .	30 ≥ 31		D.B./W.B. Dry Bulb Wet Bulb Dew P	Wet Bulb	Dew P
		-											-		
			1								-		2		1
													17		
			1	+	1						-	1	14		
													;		
										-	-	1	20	1	
													108		
50.0	0												104	-	
													112		
								*******					101		
	-							-			-		70		
20.02	-												7	-	
-		1	1					-			-		44		
													3,5		
1	-	+	1	+	+	+	+	+			+		90	1	
					_								200		
1	-	1	1	1	1	+		+			+	-	30	1	1
													21		
			1	1	-						-	-	13		
													1.4		
											-	-	-		1
													7		
								1			-	-	1		
•	0.												686		
													2	2	
1		1	1	1	+		+	+			+	1			
1					-						-				
1											-				
											_				
1	-		1		-						+	-			
1	2.3		1		-		2			2					
1	×		1	××	×	1	No. Obs.			Medn No.	or nours	with lempe		-	1
		9216		96	96.0		-	20 F	≥ 32 F	₹ 67 F	≥73 F	280 F	F 293 F	-	Total
	24	242388		3472	14.0	7.447	656	38.3							720
		424		28	14.0		2		720.0					-	720
1						+	-	-	-			+	+		1

NAVWEASERVCOM

Dew Point

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87601 STATION

MC MURDO STATION, ANTARCTICA

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HC MURDO STATION, ANTARCTICA

	Dew Po																																Total	766.	
TOTAL	Wet Bulb Dew Poir																															-	-	+	+
		~	7	-	17	23	78	116	122	120	0		130	0	47	35	12	7	9	987					1			1			1		293 F		
TOTAL	D.B./W.B. Dry Bulb		1		1							1		1								+			1			1			1	Mean No. of Hours with Temperature	2 80 F		
	231 D		1		1		1					+		1								T			1			1			+	urs with	273 F	1	1
			1		1							1		1								T			1			1			1	of Ho	*	1	4
	. 28 29 . 30		1	_	1		1		*	-		+	_	1								+			+			+			+	Mean N	₹ 67 F		
	. 26 27		1	_	1					-		+	_	1			-					+			1			+			+	1	-	676.2	1
	- 24 25	-	+		-	_				-		+	-	-		_						+			+			+			+		± 32 F	67	1
	. 22 23		+		-	_		_		-	_	+		-							_	+			\dagger			+			\dagger		≥ 0 F		
(E) N	- 20 21	\vdash	+							-		+		-								+			+	_		+			+	+	+		+
RESSION	. 18 19	-	+		-							+										+	-		+		-	+			+	No. Obs.		987	
URE DEF	16 17	-	+	_								+	_									+			+		-	+			+	Ž			
WET BULB TEMPERATURE DEPRESSION (F)	9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27	-			-							+													+			+			1	σ×		5.564	
ET BULB	1 - 12 13	+	1		1							+								-					1			1			T	×		-	1
*	- 10		1									+										+			+			+			1		-	25.1	4
	7 . 8 9								_			+										+			+			1		-	1	Σx		4807	
	5.6	T	1	_						-		+										\dagger			1			+				2		2	
			1						_	+		+										\dagger			1			+		T	1			025	
	1.2 3				-					-		+										+			1			+	T		1	2x2		654025	
	0	1								-		+					-					+			+			+			+	**			
	L	+1	39	37	35	33	31	29	27	28	22	63	21	10	17	15	13	11	0			+		-	+		-	+		-	+	(X)	·m·	qlr	olb
Temp	(E)	421	-	-	198	1	-	-	28/	-		J.	727	20/	18/	16/	191	12/	101	TOTAL												Element (X)	Rel. Hum.	Dry Bulb	Wet Bulb

MC MURDO STATIONS ANTARCTICA

YEARS

Temp						WET BU	LB TEMPE	RATURE C	WET BULB TEMPERATURE DEPRESSION (F)	(F) A						TOTAL		TOTAL	
(6)	0 1.2	3.4	5.6	7.8	9 - 10	11 . 12	13 - 14	15 - 16 1	9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27	- 20 21	. 22 23 .	24 25 .	26 27 . 2	. 28 29 . 30	0 = 31	D.B./W.B.	Dry Bulb	Wet Bulk	Dry Bulb Wet Bulb Dew Poir
9 /	+	1	1									-	-				-		
46/ 45																			
-																	5		
40/ 39																	30		
-																	31		
36/ 35																	93		
-																	178		
32/ 31																	265		
																	332		
																	350		
																	341		
																	323		
22/ 21																	354		
																	351		
1.1	50.0									-							1 276		1
1.5																			
1																	257		
																	259		
0	50.0													_			1 275	~	
1																			
6/9																	256		
																	247		
																	238	-	
																	237		
																	272		
																	287		
-/9														_			287		
																	296		
=																	286		
-12/-13																	312		
-14/-19																	242		
-16/-17																	269		
-18/-19																	296		
-20/-21									-	-	-	-	-		-		193		
Element (X)	Σ_{X^2}			Σx		×	σ×		No. Obs.				Med	n No. of	Hours w	Mean No. of Hours with Temperature	oture		
Ref. Hum.								-			≥0 F	≥ 32 F	792	7 F	≥73 F	≥ 80 F	2 29 F		Total
Dry Bulb																			
Wet Bulb																			
Dew Point								-										-	

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87601 STATION

DS PSYCHROMETRIC SUMMA JAN 68

Temp.	0 1.2 3.	.4 5	5.6 7	. 8	1 01 -	NET BU	WET BULB TEMPERATURE DEPRESSION (F)	15 - 1	8E DEP	18 19 -	WET BULB TEMPERATURE DEPRESSION (F) - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30	12 23 .	24 25 .	26 27	28 29		231	TOTAL D.B./W.B	TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Point	-	Wet Bulk
-22/-23														_					169		0.4
-26/-27														-					===	-	
30/				-							-	-	-	-					20.4	4 (3)	
-34/-35														-					32	- me un	
-38/-39														-					13	-	
-42/-43													-	-						- m	
140/-47	-								-			-		-						m	
-54/-55																				- N	
•	•																		8657	~	
														-							
		+	+	+				-	-	-	-	-	+	+	+						
		-		-				-	-	-	-	-	-	-	-						
		-												-							
		++			11											11					
Element (X)	Σ×2	+	- XX			×	×		Š	No. Obs.			-	- 1	Z up	- S	urs with	Mean No. of Hours with Temperature	ofure		
Ref. Hum.	9216	16		96	96	0.96				-	0 2	3 0 F	≥ 32 F		₹ 67 F	27	≥73 F	≥ 80 F	≥93 F	-	H
Dry Bulb	3216753	53	42	2931		5.0	18.628	920		8657	463	8.0	4638.08541.1	-					1		+
Wet Bulb		454		2	1	0		+		7	1	1	120.0	5		1	1		+	1	8700.0

0

0

MC MURDO STATIONS ANTARCTICA

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY DRSERVATIONS

87601 STATION	1	MC MURDO	STATION	- 8	ANTARCTIC	4	73-77	2		YEARS			1	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	¥
0	MEAN S. D.	27.6	2.	•	9.4611	10.9641	10.82612	11.3- 1	3.5	710.1961	2.095	12.9	5.606	17.787
	TOTAL OBS	155	- 1			75		124	12	120	12	-	154	
	MEAN	26.8				0.0			6.2	15.8-	6.5-	12.	-	-
03	S. D.	5.944	6.334						9.239	910.4081	719.2	7.564	5.248	17.160
	TOTAL OBS	155				-				71	115	=	123	999
	MEAN	24.7	4.41	1	6.8-	7.0-	0.0		4.0	15.6-	6.0-	12.	23.9	30
40		5.74	7.870	,	9.203	748	779			11.3541	~	7.53	5.387	120
3	88	155	113	•	120	123	110	124	- 2	3 120			124	1489
									1 1			1		
	MEAN	27.0				7.0-			14.9- 17	17.5-	4.3-	14.0	24	12.2
60	S. D.	5,863							5.878		m	•	•	
	TOTAL OBS	155				-			10		116	1	12	676
				1							1	1		
	MEAN	27.9	15.9		7.7-	8.1-	10.2-	1.9-	14.7-	14.7- 14.3-		14.9	25.7	1.0
12	S. D.	5.837	8.360	9.312	060.6		15.396	1.127	2.445	10.230	160		2.498	18.219
	TOTAL OBS	155	113		120		150	124	124	120	*	V	621	1
	MEAN	28.7	0			0				0	5	15.6	26.2	13.9
5	S. D.	5.624				:			8.801	8 . 8051	-	6.848	5.428	17.189
:	TOTAL OBS	155	77			-				- 1	=	120	123	676
	1000			1	1			:	3		0	100	6 76	
	MEAN	5 740			0.127		10.	7	784			7.743	5.734	18.598
:	TOTAL OBS	155	113	124		•	611		124		1	120	124	1490
	MEAN	28.5				7.0-			11.7-	16.6-	4.3	14.7	55.9	13.1
21	S. D.	5.929	6.347						4.736	9.1991	~		5.626	17.627
	TOTAL OBS	159				-		1	12	1	=		122	-
	MEAN	27.0		1	7 1-	7 8-	10.01	-		16.3	- 1	7	0	0.8
ALL	200			0		200	7.07	-		419	•		, .	600
HOURS	TOTAL OBS	2000	760	469	479	1664	477	969	107/41-21	141	956	•	•	8657
		***		1	-	1	1	1			-			

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

MEAN S. D. TOTALOSS	STATION	1		15	TATION NAME						YEARS				
MAN FEB MAR ANP. JUN. JUL. AUG. SFP OCT.							- 1								
MEAN S. D. S	HRS.(L.S.T		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
107A1 085 MEAN S. D. 107AL 085													10.0		10.0
MEAN S. D. TOTALOSS	60	S. D.													
MEAN S. D. TOTAL OIS MEAN S. D.		TOTAL OBS											1		
S. D. TOTALOSS WEAN S. D.		MEAN											18.0		18.0
MEAN S. D. TOTALOBS															
MEAN S. D. TOTALOSS		TOTAL OBS											1		
MEAN S. D. TOTALOBS															
AMEAN S. D. TOTAL OBS MEAN S. D. TOTAL OBS		MEAN													
MEAN S. D. TOTALOBS	21	S. D.													
MEAN S. D. TOTAL OBS		TOTAL OBS													
MEAN S. D. TOTAL OBS MEAN S. D.															
MEAN S. D. TOTAL OBS		MEAN													
MEAN S. D. TOTAL OBS		3.0.													
MEAN S. D. TOTAL OBS		CONTO													
S. D. TOTAL OBS WEAN S. D. TOTAL OBS WEAN S. D. TOTAL OBS WEAN S. D. TOTAL OBS S. D. TOTAL OBS		MEAN													
MEAN S. D. TOTAL OBS MEAN S. D.		S. D.													
MEAN S. D. TOTAL OBS S. D. TOTAL OBS MEAN S. D.		TOTAL OBS													
MEAN S. D. TOTAL OBS MEAN S. D.															
S. D. MEAN S. D. TOTAL 0BS MEAN S. D. TOTAL 0BS MEAN S. D. TOTAL 0BS AEAN S. D.		MEAN													
MEAN S. D. TOTAL OBS MEAN S. D. TOTAL OBS MEAN S. D. TOTAL OBS S. D. TOTAL OBS S. D.		S. D.													
MEAN S. D. TOTAL OBS MEAN S. D. TOTAL OBS MEAN S. D. TOTAL OBS MEAN S. D. S		TOTAL OBS													
S. D. TOTAL OBS MEAN S. D. TOTAL OBS MEAN S. D.		MEAN													
MEAN S. D. MEAN S. D. MEAN S. D. S. D.		S. D.													
MEAN S. D. TOTAL OBS MEAN S. D.		TOTAL OBS													
MEAN S. D. TOTAL OBS MEAN S. D.															
TOTAL OBS MEAN S. D.		MEAN				1									
MEAN S. D.		3. 0.													
MEAN S. D.		200													
O vi		-											14.0		14.0
	HOURS														

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY DESERVATIONS

Q

STATION	1		•	STATION NAME						YEARS			-	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
												17.0		17.0
90	S. D.													
	TOTAL OBS											1		
	MEAN													
	S. D.													
;	TOTAL OBS													
	MEAN													
	S. D.													
	TOTAL OBS													
	MEAN													
	S. D.													
	TOTAL OBS													
	MEAN													
	S. D.													
	TOTAL OBS													
	MEAN													
	S. D.													
	TOTAL OBS													
	MEAN													
	TOTAL ORS													
	MEAN													
	S. D.													
	TOTAL OBS													
AII	MEAN											17.0		17.0
HOURS	S. D.													
	TOTAL ORS						The second second					•		

(0)

RELATIVE HUMIDITY

MC MURDO STATION, ANTARCTICA 87601 STATION

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS			PERCENTA	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	OF RELATIVE	HUMIDITY GRE	ATER THAN			MEAN	NOTAL
	10%	20%	30%	40%	20%	%09	70%	80%	%06	HUMIDITY	OBS.
	40										

O

RELATIVE HUMIDITY

MC MURDO STATION, ANTARCTICA \$7501 STATION

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MONTH HONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL NO. OF OBS. MEAN RELATIVE HUMIDITY %06 80% PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN 20% %09 20% 40% 30% 20% 10% HOURS (L.S.T.) 00 90 60 8 03 2 TOTALS MONTH 4

080

RELATIVE HUMIDITY

MC NURDO STATIONS ANTARCTICA 87601 STATION

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PERIOD

MAR

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TINOM	HOURS			PERCENTAC	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	OF RELATIVE	HUMIDITY GRE	EATER THAN			MEAN	TOTAL
TINOW I	(L.S.T.)	%01	20%	30%	40%	20%	%09	70%	80%	%06	HUMIDITY	OBS.
AAN	00											
	03											
	90											
	60											
	12											
	15											
	18											
	21											
			4									
			is									
101	TOTALS											
			1	1	-			1				

O E O

NO. OF OBS.

MEAN RELATIVE HUMIDITY

%

%08

20%

30%

20%

10%

HOURS (L.S.T.)

MONTH

RELATIVE HUMIDITY

MC HURDO STATION, ANTARCTICA

87601 STATION

APR

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN %09 20% 40%

0 0

NAVWEASERVCOM

0

00

APR

03

90

0

50

5

12

21

TOTALS

RELATIVE HUMIDITY

MC MURDU STATIONS ANTARCTICA STATION

.0

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

nEXO,	HOURS			PERCENTAG	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	OF RELATIVE	HUMIDITY GRE	ATER THAN			MEAN	TOTAL
LI WOW	(L.S.T.)	%01	20%	30%	40%	20%	%09	%02	%08	%06	HUMIDITY	OBS.
MAY	00											
	03											
	90											
	60											
	12											
	15											
	1.8											
	2.1											
101	TOTALS											

ofo

RELATIVE HUMIDITY

MC MURDO STATIONS ANTARCTICA STATION

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HINOW	HOURS			PERCENTA	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	OF RELATIVE	HUMIDITY GRE	ATER THAN			MEAN	TOTAL
	(LS.T.)	10%	20%	30%	40%	20%	%09	70%	%08	%0%	HUMIDITY	OBS.
אחר	00											
	03											
	90											
	60											
	12						*					
	15											
	1.8											
	21											
101	TOTALS											

RELATIVE HUMIDITY

MC MURDO STATIONS ANTARCTICA 87601 STATION

0

0

PERIOD

HONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN

70% %09

20%

40%

30%

20%

28

HOURS (L.S.T.)

MONTH

0

00

ומר

0

03

90

60

80%

8

MEAN RELATIVE HUMIDITY

NO. OF

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TOTALS

0

NAVWEASERVCOM

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0

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RELATIVE HUMIDITY

MC MURDO STATIONS ANTARCTICA 87601 STATION

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH			PERCENTA	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	NO. OF
-	%01	20%	30%	40%	20%	%09	70%	%08	%06	HUMIDITY	088
00											
03					7						
90											
60											
12											
1.5											
18											
21											
											·v
TOTALS											
OTALS											

NAVWEASERVCOM

RELATIVE HUMIDITY

MC MURDO STATION, ANTARCTICA 87601 STATION

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0

0

PERIOD

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN

70%

%09

20%

40%

30%

20%

18%

HOURS (L.S.T.)

MONTH

P

00

SEP

0

03

90

0

60

12

00

0

0

21

80%

8

MEAN RELATIVE HUMIDITY

NO. OF OBS.

NAVWEASERVCOM

TOTALS

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RELATIVE HUMIDITY

MC MURDO STATION, ANTARCTICA

STATION

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PERIOD

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	OF RELATIVE	HUMIDITY GR	EATER THAN			RELATIVE	
TINOW I	(LS.T.)	*01	20%	30%	40%	%05	%09	20%	80%	%06	HUMIDITY	
100	00											
	60											
	90											
	60											
	12											
	15											
	18											
	12											
Δ	TOTALS											

010

RELATIVE HUMIDITY

STATION ANTARCTICA STATION ANTARCTICA

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Q

0

Q

0

0 40

73

PERIOD

don

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NTA CH	HOURS			PERCENTA	GE FREQUENCY	T OF RELATIVE	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	SATER THAN			MEAN	TOTAL
	(L.S.T.)	10%	20%	30%	40%	20%	%09	20%	%08	%06	HUMIDITY	088.
NOV	00											
	60											
	90	100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0 100.0 100.0 100.0 100.0 100.0	100.0	100.0	96.0	
	60											
	12											
	15											
	1.8											
	21											
TOTALS	LS	100.0 100	100.0	0.001 0.001 0.001 000.0 100.0 100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.0	

RELATIVE HUMIDITY

MC MURDO STATIONS ANTARCTICA 87601 STATION

Q

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN

20% %09

20%

40%

30%

20%

10%

HOURS (L.S.T.)

MONTH

0

0

00

DEC

0

03

90

0

60

0

12

15

18

21

80%

80%

NO. OF

MEAN RELATIVE HUMIDITY

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040

NAVWEASERVCOM

TOTALS

0

NO

RELATIVE HUMIDITY

HC MURDO STATIONS ANTARCTICA 87501 STATION

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0

PERIOD

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

30% 40% 50% 60% 30% 60%	40% 50% 40% 50%	30% 40% 50% 70% 80% 30% 40% 50% 70% 80%		%08
JENCY OF RELATIVE HUMIDITY GRE 50% 60%	JENCY OF RELATIVE HUMIDITY GREATER THAN 50% 60% 70%		%08	%08
60% 60%	60% 70%		%08	%08
	70% 70%		%08	%08

ALT:

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1.9 6.1

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11 01

12 TO 16

47 TO 51 42 TO 46 37 TO 41

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52 TO 56

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3.4

1.9

1.1

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15.9

42.2

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12.4

-58 TO-54

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-59 & LV/R

TOTALS

-48 TO-44

-53 10-49

-43 TO-39

-18 T0-14

-13 TO -9

-8 10-4

-3 70 1

2 10 6

-33 TO-29 -38 10-34

-28 10-24

NAVWEASERVCOM

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WIND DIRECTION

MC MURDO STATION, ANTARCTICA

JAN 73 - DEC 77

JANUARY

% OF TOTAL

FREG.

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× × ×

SSW & SW

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ESE & SE

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112 70 116

17 10 121

122+

0

111 07 701

0

102 TO 106

16 01 78

82 TO 86

17 07 79

40

ALL

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WIND DIRECTION



























87601 STATION

















WIND DIRECTION MC MURDO STATION, ANTARCTICA

WIND DIRECTION

112 TO 116

17 10 121

TEMP. 122+

87601 STATION

16 01 78 82 TO 86 77 10 81 72 10 76 17 07 78 62 10 66 19 01 75

52 TO 56 47 10 51 42 TO 46 37 TO 41

27 TO 31 22 70 26 17 10 21 12 TO 16

8

32 10 36

- DEC 77 JAN 73

FEBRUARY

ALL

755 100.0 % OF TOTAL 1193 TOTAL FREG. 14.4. 0.6 CALM 14.5 2.3 NN N . 1.4 wsw * × 20.0 7.1 2.3 SSW & 1.4 0. SSE & S 2022 19.3 ESE & 0.65 ENE & 868-84 6.0 N N N 26.1 13.6 5.2 1.1 ≥ z z v

TOTALS

-18 10-14

-13 TO -9

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-3 TO 1

-8 10-4

-23 10-19 -28 10-24 -33 10-29 -38 10-34 -43 TO -39 -48 10-44 -53 TO -49 58 10-54 -59 & LWR

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE	
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WIND DIRECTION

JAN 73 - DEC 77

MC MURDO STATION, ANTARCTICA

Q

MARCH

1722. 1724. 1724. 1724. 1224						WIND DIRECTION	CTION					
20.0 20.0 20.0 10.0 2 20.0 20.0 20.0 10.0 3.2 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4	TEMP.	N Z	NNE NE	2 40 2 40	ESE & SE	SSE & S	\$5 W	wsw w	WNW W	CALM	TOTAL FREG.	% OF TOTAL
20.0 20.0 20.0 10.0 10.0 10.0 10.0 10.0	122+											
20.0 20.0	117 TO 121											
20.0 20.0	112 70 116											
20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	107 70111											
20.0 20.0	102 10 106											
20.0 20.0 20.0 10.0 10.0 10.0 10.0 10.0	101 01 76											
20°0 20	92 10 96											
20.0 20.0 20.0 10.0 20.0 10.0 20.0 20.0	16 01 78											
20.0 20.0 20.0 10.0 10.0 10.0 10.0 10.0	82 10 86											
20.0 20.0	77 TO 81											
20.0 20.0 20.0 20.0 10.0 10.0 10.0 10.0	72 TO 76											
20.0 20.0 20.0 20.0 10.0 20.0 20.0 20.0	67 TO 71											
20.0 20.0	62 TO 66											
20.0 20.0	57 TO 61											
20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	52 TO 56											
200 200 200 200 200 200 200 200 200 200	47 TO ST											
20.0 20.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 12.9 19.4 3.2 4.3 1.4 70.2 69 20.3 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 10.0 20.9 20.9 20.9 20.9 20.9 20.0 20.0 2	42 TO 46											
20.0 20.0 30.0 20.0 10.0 3.2 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	37 TO 41											
20.0 20.0 30.0 20.0 10.0 20.0 10.0 20.0 10.0 10.0 1	32 10 36											
20.0 20.0 20.0 10.0 10.0 10.0 10.0 10.0	27 TO 31											
16.1 20.0 20.0 10.0 3.2 10.1 31 31 32.3 12.9 19.4 3.2 10.1 31 31 32.3 12.9 19.4 3.2 10.4 7.2 4.3 3.4 3	22 TO 26	20.0									•	
2.9 8.7 36.2 31.9 7.2 4.3 11.4 7.2 6.9 2.9 8.7 36.2 31.9 7.2 4.3 11.4 7.2 69 1 2.3 3.9 7.2 4.3 1.4 5.7 69 1 2.3 3.9 1.0 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.9 40 1 2.5 3.0 67.5 15.0 2.5 2.5 3.9 40 1 2.5 5.0 67.5 15.0 2.5 2.5 3.9 40 1 2.5 5.0 6.0 3.0 3.4 1.7 3.4 6.9 3.9 1 2.5 5.0 6.0 9.1 2.5 5.5 5.0 40 1 2.5 5.0 6.0 9.0 9.1 1.0 3.4 1.0 3.4 1.0 1 2.5 5.0 6.0 9.0 9.1 1.0 3.4 1.0 3.5 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.	17 10 21	20.0										
2.9 8.7 36.2 31.9 7.2 4.3 1.4 7.2 69 2.5 3.8 58.8 23.8 8.8 3.4 3.4 5.7 87 2.2 1.0 65.0 22.3 2.9 1.9 1.0 2.9 2.9 1.0 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9	12 TO 16	16,1					3.6			1		
2.5 3.8 58.8 23.8 8.8 3.4 3.4 5.7 87 87 87 87 87 87 87 87 87 87 87 87 87	7 10 11	2.9					4.3		1.4			
2.3 5.7 55.2 16.1 4.6 3.4 3.4 5.7 87 2.9 1.0 65.0 22.3 2.9 1.0 1.0 2.9 103 2.5 5.0 67.3 15.0 2.5 2.5 2.5 5.6 40 2.5 5.0 67.3 15.0 2.5 2.5 2.5 5.0 40 3.8 4.0 53.6 23.0 6.0 1.6 1.6 1.0 5.2 496 1	2 70 6	2.5								2,5		
2.9 1.0 65.0 22.3 2.9 1.9 1.0 2.9 103 1.7 1.7 43.1 37.9 3.4 1.7 3.4 6.9 56 2.5 5.0 67.5 15.0 2.5 2.5 5.5 5.0 40 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0	-3 TO 1	2.3					3.4	3.4	3.4	5.7		
2.5 5.0 67.5 15.0 2.5 2.5 2.5 5.0 40 2.5 5.0 67.5 15.0 2.5 2.5 2.5 5.0 40 3.8 4.0 53.6 23.0 6.0 1.6 1.0 5.2 496 1	-8 10-4	2.9						1.9	1.0	2.9		
2.5 5.0 67.5 15.0 2.5 2.5 5.0 40 30.0 50.0 50.0 2 3.8 4.0 53.6 23.0 6.0 1.6 1.0 5.2 496 1	-13 TO -9	1.7					1.7	3.4		6.9		
3.8 4.0 53.6 23.0 6.0 1.6 1.0 5.2 496 1	-18 TO-14							2.5		9.0		
3.8 4.0 53.6 23.0 6.0 1.6 1.0 5.2 496 1	-23 TO-19										1	2.
3.8 4.0 53.6 23.0 6.0 1.6 1.0 5.2	-28 TO-24			50.0							2	•
3.8 4.0 53.6 23.0 6.0 1.6 1.0 5.2	-33 TO -29											
3.8 4.0 53.6 23.0 6.0 1.6 1.6 1.0 5.2	-38 10-34											
3.8 4.0 53.6 23.0 6.0 1.6 1.6 1.0 5.2	~43 TO -39											
3.8 4.0 53.6 23.0 6.0 1.6 1.6 1.0 5.2	~48 TO-44											
3.8 4.0 53.6 23.0 6.0 1.6 1.6 1.0 5.2	-53 10-49											
3.8 4.0 53.6 23.0 6.0 1.6 1.6 1.0 5.2	~58 TO-54											
3.8 4.0 53.6 23.0 6.0 1.6 1.6 1.0 5.2	-59 & LWR			1								
	TOTALS						1:0	1.6	1.0			1001

WIND DIRECTION

MC MURDO STATION, ANTARCTICA

87601 STATION

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TEMP.	> z	N N N	8	ESE & SE	SSE SA S	SSW &	wsw w &	WNW WN W	CALM	TOTAL FREQ.	% OF TOTAL
122+											
121 01 711											
112 TO 116											
111 07 701											
102 TO 106											
101 01 26											
92 10 96											
16 01 78											
82 TO 86											
18 07 77											
72 TO 76											
17 07 79											
62 TO 66											
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 10 21					- 1					2	
12 TO 16			4.4.4		***				200	11	0.0
11 01 /	10.4				- 1		2.0	4.0		208	
2 10 6	1.							3.6		36	
8 10-4	11.9	6.9	41.6	14.9		2.0	1.0	4.0	16.8	101	
-13 TO -9	8.2					4.1		3.1		86	
-18 TO-14	5.7							1.1		88	
-23 TO-19	2.7			2.1					21,6	3.1	7.7
-28 TO-24			66.7		10.7				16.7	9	1.3
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO -49											
-58 TO -54											
59 & LWR						-	1			7.90	
TOTALS	7.1	Ø . 4	44.0	13.4			*	6.3	13.7	2.5	0.001 414

WIND DIRECTION

JAN 73 - DEC 77

MONTH

HOURS (L.S.T.) MAY

% OF TOTAL

FREG.

CALM

× × × ×

NNE NE

N N N

TEMP. 122+

ALL

wsw * SSW S SW SSE & S

WIND DIRECTION MC MURDO STATION, ANTARCTICA

ESE & SE

102 TO 106

112 TO 116

111 07 701

117 TO 121

101 07 76

87 TO 91

82 TO 86 77 TO 81 72 10 76 17 07 79

0

92 10 96

.0

0

42 TO 46

32 TO 36 27 TO 31 22 TO 26

37 TO 41

18.5 7.08

12 TO 16

7 10 11

17 10 21

2.0 3.6

100000

1.3

-13 TO -9

-8 10-4

-3 TO 1

2 10 6

5.3 5.1 5.3 5.3 5.3

152

3.2

108

2.0.6

6

2.5

6.9

27

-18 TO-14 -23 TO-19 -28 TO-24 -33 10-29

-38 TO-34

-43 TO-39 -48 TO-44 -53 TO-49

NAVWEASERVCOM

499 100.0

15.8

2.2

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20

5.8

10.2

53.0

5.4

4.6

-58 TO-54 TOTALS

-59 & LWR

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87601 STATION

97
2/
7
3/1
7/6
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WIND DIRECTION

ANTARCTICA JAN 73 - DEC 77	MC MURDO STATION, ANTARCTICA JAN 73 - DEC 7
ANTARCTICA	STATION, ANTARCTICA
	STATION

87501 STATION

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			The real Property lies and the last of the	Name and Address of the Owner, where the Owner, which is the Owner, whi							
TEMP.	WNN	NNE	ENE	ESE	SSE	wss.	wsw	WNW	CALM	TOTAL	% OF
1	Z =0	S NE	3 E	& SE	8.5	& 5W	*	× ×		FREG.	TOTAL
122+											
17 10 121											
112 TO 116									19		
111 07 701											
02 TO 106											
101 01 76											
92 70 96											
16 01 78											
82 TO 86											
18 01 77											
72 TO 76											
17 07 79											
62 TO 66											
19 01 75											
52 TO 56											
12 07 74											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31			100.0							-	.2
22 10 26											
17 10 21				1	1						-
12 70 16			27.72		1					4	407
7 10 11			0 6	1	1					7	100
2 70 6	607					200	-		200	1	1
-3 70 1	4	1		1		7.0	**		000	64	2
4-01-6		1		1	1	0			18.0		
10 01 01	2	200	32.9	30.1	8.2	2.7	1.6		19.2	73	
-23 TO-19	6.3	4.3	1	1					21.7	99	9.6
-28 TO-24		3.1	1	1					37.5	35	6.7
-33 TO -29		0.01		1				10.0	30.0	2	1.2
-38 TO-34					11.1				***	6	1:0
-43 TO -39			66.7						33.3	3	9.
-48 TO -44											
-53 TO -49											
-58 10-54											
-59 & LVR		1	1	1	1	-				*	3.
TOTALS	2.5	2.4	24.0	1067	4 . 7	0.1	0	7.	130		000

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EQUENC	87
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REQUENC	87
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FREQUENC	57
E FREQUENC	57
SE FREQUENC	57
GE FREQUENC	57
AGE FREQUENC	57
TAGE FREQUENC	57
ITAGE FREQUENC	57
NTAGE FREQUENC	57
ENTAGE FREQUENC	57
CENTAGE FREQUENC	5^
CENTAGE FREQUENC	57
RCENTAGE FREQUENC	57
ERCENTAGE FREQUENC	57
ERCENTAGE FREQUENC	57
PERCENTAGE FREQUENCY OF AIR TEMPERATURE	5/

WIND DIRECTION

MC MURDO STATION, ANTARCTIC

87601 STATION

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- DEC	0 4 4 >
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ALL HOURS (L.S.T.)

1702-11 1704 1814 1815						HIND DINECTION	L 101					
20,0 60,0 15,0 100,0 15,0 10,0 20,0 15,0 10,0 20,0 15,0 10,0 10,0 10,0 10,0 10,0 10,0 1	TEMP.	NN N	S NE	S ENE	ese & se	SSE & S	\$5 W	wsw w &	www wn w	CALM	TOTAL FREG.	% OF TOTAL
200 000 000 000 000 000 000 000 000 000	122+											
200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	117 TO 121											
20.0 b0.0 10	112 TO 116											
20,000,000,000,000,000,000,000,000,000,	107 701											
200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	102 TO 106											
200 000 000 000 000 000 000 000 000 000	97 TO 101											
20.00 100	92 10 96											
200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	87 TO 91											
20.0 60.0 10	82 TO 86											
200 000 000 000 000 000 000 000 000 000	77 TO 81											
200 0 000 0 000 0 0 0 0 0 0 0 0 0 0 0 0	72 TO 76											
200.0 60.0 100.0 15.0 2.0 4.0 10.0 40 17.5 6.7 26.7 16.7 43.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	17 07 79											
2.0 0.0 0.0 0.0 20.0 20.0 2.0 2	62 TO 66											
2.0 20.0 60.0 22.5 30.0 2.0 4.0 2.4 3.5 3	57 TO 61											
2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	52 TO 56											
200 600 2200 303 303 303 303 303 303 303 303	47 TO ST											
200 600 200 200 0	42 TO 46											
200 000 1000 1000 1000 1000 1000 1000 1	37 TO 41											
2.0 6.0 6.0 20.0 20.0 2.0 6.0 2.0 2.0 6.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	32 TO 36											
20,00 00,0 0 00,0 0 00,0 0 0 0 0 0 0 0 0	27 TO 31											
20,0 60,0 20,0 3,3 3,3 3,3 3,3 3,3 3,3 3,3 3,3 3,3	22 TO 26											
3.3 50.0 60.0 20.0 3.3 7.5 15.0 22.5 30.0 15.0 40.0 40.0 2.0 8.0 32.9 22.0 16.0 2.0 4.0 10.0 40.0 2.0 8.0 32.9 29.4 18.8 2.4 2.4 8.2 8.1 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 11.0 22.0 62.1 1 10.0 20.0 10.0 20.0 10.0 2.0 10.0 20.0 11.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0 10.0 20.0	17 TO 21					100						
7.5	12 TO 16			000	-	20,0	- 1					
7.5 15.0 22.5 30.0 15.0 4.0 10.0 40 4 5.9 32.9 29.4 18.8 2.4 2.4 8.2 85 1	7 70 11	3.3	0	20.7	1001	43.3	- 1					
2.0 8.0 36.0 22.0 10.0 2.0 4.0 10.0 50 1 5.9 32.9 29.4 18.8 2.4 2.4 8.2 85 1 3.2 4.8 45.2 17.7 3.2 1.6 1.6 22.6 62 1 8.0 8.0 30.0 18.0 10.0 2.0 2.0 24.0 50 1 5.6 3.7 37.0 33.3 7.4 1.9 11.1 54 1 5.6 3.7 22.2 37.0 7.4 2.0 1.9 11.1 54 1 5.3 33.3 5.3 33.3 5.3 33.3 33.3 3	2 70 6	7.5		15.0	55.2	30.0				10.0		
5.9 32.9 29.4 16.8 2.4 2.4 8.2 3.2 12.3 73 1 5.5 4.6 45.2 17.7 3.2 1.6 22.6 62 1 8.0 8.0 18.0 10.0 2.0 1.6 22.6 62 1 5.6 3.7 37.0 33.3 7.4 1.9 11.1 54.1 1 6.3 37.5 6.3 37.5 6.3 37.5 6.3 33.8 16 33.3 3	-3 TO 1	2.0		36.0	22.0	10.0		0.4				
5.5 8,2 3,2 2,0 8,2 3,5 12,3 73 1 3.2 4,6 45,2 17,7 3,2 1,6 1,6 1,6 22,6 62 1 8.0 8,0 18,0 18,0 10,0 2,0 1 24,0 50 1 5.6 3,7 22,2 37,0 7,4 1,9 11,1 54 1 6,3 37,5 6,3 37,5 6,3 37,5 6,3 33,3<	-8 TO-4	5.9		32.9	50.4	10.8	- 1		2.4			
3.2 4.6 45.2 17.7 3.2 1.6 1.6 22.6 62 1 8.0 8.0 30.0 18.0 10.0 2.0 24.0 50 1 5.6 3.7 22.2 37.0 7.4 1.9 11.1 54 1 6.3 6.3 37.5 6.3 43.8 16 27 33.3 33.3 3	-13 TO -9	5.5		34.2	20.0	2.0	- 1			-		
8.0 8.0 30.0 18.0 10.0 2.0 24.0 30 1 5.6 5.6 3.7 22.2 37.0 7.4 1.9 11.1 54 1 54 1 54 1 54 1 54 1 54 1 54 1	-18 TO-14			45.2	17.7	3.5			1:0			
5.6 3.7 37.0 33.3 7.4 1.9 11.1 54 1 6.3 3.7 22.2 37.0 7.4 29.6 27 6.3 37.5 6.3 43.8 10 33.3 33.3 33.3 3	-23 TO-19	8.0		30.0	18.0	10.0				24.0		
33, 3 5, 3 37, 0 7, 4 29, 6 27 6, 3 5, 3 3, 3 3, 3 3, 3 3, 3 3 3, 3 3,	-28 TO-24	3.6	3.7	37.0	33,3	7.4			1.9	11.1		_
33,3 6,3 43,8 16	-33 TO-29		3.7	25.2	37.0	7.4				29,6		
33,3 3	-38 TO-34		6.3		37.5	6.3				43.8		
	-43 TO-39		33.3		33.3					33,3		
	-48 TO-44											
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WIND DIRECTION

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42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31									100.0	-	.2
22 TO 26											
17 10 21	100.0									-	.2
12 TO 16			33.3	33.3		10.1	16.7			9	
7 10 11	14.3			7.1	21.4	7.1	7.1	7.1	7,1	14	5.0
2 10 6	3.4			17.2	20.7			3.4		53	
-3 TO 1		4.1		12.2	26.5	2.0	2.0		2 . 8	69	
-8 10-4	4.3	5.8		23.2	11.6	1.4	5.9		11.6	69	12.
-13 TO -9	0.9			16.7	0.9	3.6		1.2			
-18 TO-14	11.0			0.4	0.	0.2		3.0		-	
-23 TO-19	12.9			11.4	2.7			5.7			
-28 TO-24	10.7	3.6	48.2	10.7	5.4			1.8		96	10.5
-33 TO-29		12.5		12.5	2.4	7.5					
-38 TO-34		7.1			1.1				28.6	14	
-43 TO - 39		20.0		30.0	10.0		10.0		10.0		
-48 10-44				83.3					16.7	9	
-53 TO -49											
-58 TO-54									100.0	-	.2
-59 & LWR											
TOTALS	7.1	3.0	4.4.4	13.7	6	6	-	-	4 4	374	100

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MC MURDO STATIONS ANTARCTICA

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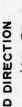
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112 TO 116											
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62 TO 66											
19 01 75											
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42 TO 46											
37 TO 41											
32 TO 36											
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17 TO 21	7.1		7.1			7.1		7.1		*1	
12 TO 16	13.0	1.3			- 1		5.6	2.0			
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-3 10 1	7.1	3.9					0.1	301		177	7305
-8 10-4	12,2					1.0	0.7	1.0		96	
-13 TO -9	4.0						8.5	2.8		201	11.0
-18 TO-14	12.7	9.8	30.4		6.2	1.0	1.0	1.0		102	
-23 TO-19	19.1	8.6					6.3	5.4		66	6.1
-28 TO-24	9.6	9.3		~			1.9	3.7	27.8	54	2.6
-33 TO-29		25.0		8.3					33.3	12	£*1
-38 TO-34			100.0							?	2.
-43 TO -39			100.0							-	1.
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	7.4	50 - 5	31.8	20.4	11.3	7.2	2.1	2.2	17.4	450	1000

NAVWEASERVCOM

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87601 STATION

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WIND DIRECTION

MC MURDO STATION ANTARCTICA JAN 73 - DEC 77

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TEMP.	N Z	NNE NE	SNE ENE	ESE & SE	SSE & S	\$ 5 W	wsw %	WNW WNW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
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112 TO 116											
111 07 701											
102 TO 106											
101 01 76											
92 10 96											
16 01 78											
82 TO 86											
18 07 77											
72 10 76											
17 07 79											
62 TO 66											
57 TO 61											
52 TO 56											
12 07 74											
42 TO 46											
37 TO 41		~	62.5	~					12,5	10	
32 TO 36	24.1	5.2	27.6		8.6	6.	0.9	6.9	11.2	116	11.8
27 TO 31	26.6		22.6	11.7	5.8	1.8	4.7	12.4	11.7	274	
22 TO 26	19.4		39.5		6.5	1.3	3.5	8.4	11.8	314	31.9
17 10 21	9.5	1.9	56.8		4.4	• 5	1.5	1.9	1.0	502	
12 TO 16		2.0	80.0					2.0		20	5.1
11 01			66.7	22.2	11.1					6	6.
2 70 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											
-18 10-14											
-23 TO-19											
-28 TO -24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	19.4	2.8	39.7	***	7.0	7.4	2.0	0.0	80	694	V65 100.0

WIND DIRECTION

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-38 10-34

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-28 10-24

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4.7

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-58 TO-54

-59 & LV/R

TOTALS

-53 TO-49

100.0

PART F

PRESSURE SUMMARY

for all hours combined. All years of data available are combined in both of these tables, although the overall of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding Presented in this part are two tables giving the means, standard deviations, and total number of observations to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

- 1. Station pressure in inches of mercury.
- 2. Sea-level pressure in millibars.

altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure Meteorological Tables.

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MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM MOURLY DBSERVATIONS

73-77

MC MURDO STATION, ANTARCTICA

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HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	, in	JUL.	AUG.	SEP.		NOV.	DEC.	ANNOA
	MEAN	29.380	29.14029.	60	9.08	9.30	9.30	9.20	9.10	8.92	8.92	9.143	N	-
00	S. D.	.193	.233	212	.216	.279	311	.278	. 388	•	.222	.269	N	
	TOTAL OBS	155	112	12	2	77	=	12	12	27	75	150	77	
	MEAN	29.27.20	40.00	+		0.500	1	0	8 8	4	8.94	9.143	0	16
		7/61.3	77.47	-	•			•	-				-	
60	S. D.	194	.235						.251	.203	•229	.271		
	TOTAL OBS	159	78			-	1			-	=	119		9
	MEAN	29.37429	90.1372	60	9.08	9.3	9.30	9.21	9.11	8.92	8.929	144	32	29.16
90	S. D.			208	. 217	.281	314	274	0	. 299	.231	.277	.27	
3	TOTAL OBS	155	113	124	120	124	=	12	123	120	124	120	124	1490
	MEAN	00	000		1	7	+			0	0		2	
		016.2	061.63	_	4			•	27.	54	-	2	-	
60	S. D.	.197	.234						196.	192.	-	.276		.303
	TOTAL OBS	155	155 77	1		-			10		116	120	123	67
	MEAN	29.37829	29.14629	.10	60.6	9.31	9.30	9.20	9.11	8.92	8.936	153	N	-
12	S. D.	198		.225	.214	.286	309	.278	.387	.2	.227	.275		.304
:	TOTAL OBS	155	113	124	12	12	12	12	12	7	~	12	77	0
	MEAN	29.37129	29.131		7	9.200		2	9.16	8.90	8.94	148	N	29.16
1.5	S. D.	100	234						.366	.26	.220	-		
	TOTAL OBS	155	11	1		7			12		=	120	12	676
	MEAN	29,36829	29.14829.	60	0.6	9.31	9.30	9.18	9.11	8.91	8.92	9.15	9.32	
18	S. D.	.200	.234	213	.22	287	306	.282		.289	.221	.278	.277	.306
	TOTAL OBS	155	113	12	-	N	=	12	12	2	~	12	12	
	MEAN	29.369	29.133	+	7	9.380		2	9.18	8.8	8.944	52	3	29.17
17	S. D.	40%	234						.37	-	-	-	-	•
	TOTAL OBS	159 77	77			-					=	150	122	
	MEAN	29.374	29.37429.13729	60.	0.6	9.31	9.30	9.20	9.11	16.8		9.148	2	91
HOIIBS	S. D.	.197	.232	.214	.216	.282	309	.277	.389	.280	.224	.2	.276	.304
	TOTAL OBS		760	0	100	C	47	0	-	-	0	95	00	65

MEANS AND STANDARD DEVIATIONS

0 00

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

STATION			STAT	TION NAME						YEARS				
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
8	MEAN S. D. TOTAL OBS	999.0	7.872	9 989.4 2 7.156 2 124	7.434	996.6	996.5	993.1	990-1	983.4	983.6 7.535 124	990.9	997.2	10.272
60	S. D. TOTAL OBS	998.7	7.960			1006.0			982.1 8.471	982.3	7.720	991.0	997.1	991.7
90	S. D. TOTAL OBS	998.8	7.728	989.3 7.026 124	7.284	996.5	996.5	993.1	13.4041	984.2	7.817	9.324	997.1	10.564
60	S. D. TOTAL OBS	998.9	7.942			1010.2			991.7	984.4	7.778	991.2	997.3	992.1 10.809 676
12	S. D. TOTAL OBS	998.9	7.768	989.5 7.223 124	7.309	996.7	996.4	993.0	990.0	983.4	7.691	991.3	997.2	991.9
13	AEAN S. D. TOTAL OBS	998.7 6.751	7.966			992.8			992.0	962.8	7.399	991.1	997.1	991.8 10.191 676
18	S. D. TOTAL OBS	998.6	7.680	7.227	7.547	996.7	996.4	992.6	989.8 13.108	983.1	7.527	991.2	997.0	991.7
12	S. D. TOTAL OBS	998.6 6.883 155	7.897			0.666			992.4	982.5	985.1	991.2	9.279	10.596
ALL	S. D. TOTAL OBS	998.8	7.805	7.137	7.372	996.7	996.4	992.9	13.0371	983.3	984.1	9.251	997.2	991.8